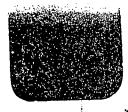


MSI PATCH SHEET

MENZEL D.M



HATLASSIFIED

ALGEOR DE MET "EXICE

16 May 1949

ASPORT OF AN UNUSUAL (?) NATURAL (?) PHENOLOGICAL

TO! THOM IT MAY CONCELUE

On the night of kay 17, 1949, while enroute from Holloman air force Base to Manogordo, New Exico, in a two-down sadar, I noted an atmospheric or calustial (?) phenomenon that I have been unable to explain. I am still not entirely convinced that what I saw may not have been an optical illusion of an unusual character.

Shortly after leaving Holloman Base, I looked out toward the Sacramento Bange, to the Past. The time was about 9:30, possibly as early as 9:15. I was matching the moon rise. At the moment, the moon had an altitude of perhaps 15°-16° above the top of the Sacramento ridge. The moon was nearly full and the sky was bright. I was interested, therefore, to see a bright star, perhaps 6°-8° East from the moon. I wondered weat the star was. Then the sky is so bright that the fainter stars do not show, I find it hard to locate the constellations. The star had a faint reddish color.

As I ratched for a minute or two, I became conscious of another star considerably nearer the horizon. The star had a fuzzy appearance, caused, I thought, by low-level atmospheric haze. As I watched I noted, within half a minute, a second star about three degrees to the South of the first. I think the Northernmost star appeared first, but an not completely sure.

My first impression was that the stars were Castor and Pollux, of Gemini. Both increased in brightness rather slowly, which was not, surprising for a pair of stars rising. I watched for perhaps another minute and suddenly became conscious of the fact that the stars couldn't have been Castor and Pollux, because Gemini is in the Test rather than the East. Furthermore, the size of the fuzzy images bothered me. Thuy were, as far as I could tell, very nearly identical in diameter, which was about one-fourth the diameter of the full moon. The following picture, drawn from memory about 12 hours later, depicts the approximate circumstances:

o star star star

1 S. J. J. J. J. J.

The fuzzy stars were three or four degrees above the horizon as defined by the fuzzy stars were three or four degrees above the horizon as defined by the chancely for the rountain range.

ONCLASSIFICED BY ARTE GALLY OF

SECREMERSON *UPHONIZING CHALCE) 10/13/82

ISIGNATURE OF PERSON MAKING CHANGE



two. The patches remained. I was still unaware that the phenomenon was exceptional until the southern object suddenly disappeared. I then asked the driver to stop the car, but the northern object vanished at that moment. The northern one had been slightly brighter. I maximum brilliance the patches must have been of zero to first stellar magnitude. The color was white possibly with a greenish tinge. They endured for about 4 minutes, during which time the car, travelling at 50 piles per labout 4 minutes, during which time the car, travelling at 50 piles per labout 4 minutes, during which time the car, travelling at 50 piles per labout 4 minutes, during which time the car, travelling at 50 piles per labout 50 piles and that the object did not change by more than 20. I would prefer direction of the object did not change by more than 20. I would prefer labout that the change was not more than 10. With a base line of 3 miles, this latter figure indicates that the objects were at least 180 miles away, that their separation in space was at least 9 miles and that the diareter was about 3/4 of a miles.

There is a bare possibility that the patches were clouds, but the behavior was unusual, to say the least. The whole phenomenon is puzzling. It may have some simple explanation, but there seems to be no completely satisfactory theory available. I report the event for future records.

DONALD H. MERZEL Harvard Observatory Combridge 36, Mass



AD-A033 020 3/1

HARVARD COLL OBSERVATORY CAMBRIDGE MASS CENTER FOR **ASTROPHYSICS**

(U) Superstars and the Black-Hole Myth.

13P JUN 75

PERSONAL AUTHORS: Menzel, Donald H.;

CONTRACT NO. F19628-75-C-0016

PROJECT NO. 7649

TASK NO. 06

MONITOR: AFGL

TR-76-0269

UNCLASSIFIED REPORT

Availability: Pub. in Memoires de la Societe Royale des Sciences de Liege, v9 n6 p343-353 1976.

ABSTRACT: (U) Einstein's famous law of gravitation R sub mu nu = 0, has two well-known exact solutions, found in 1916 by the German astronomer, K. Schwarzschild. The general solutions show that the velocity of light, at the surface of a massive, gravitating body of mass M and radius R, becomes zero when R = GM/nc squared), where n is an arbitrary positive constant. The two Schwarzschild solutions correspond to n = 1/2 and n=2. Adopting the former value, we obtain the well-known expression for the radius of a 'Black Hole', a purely mathematical concept. Physical considerations indicate that the proper value of n should be infinite. Black Holes, therefore must have zero radius a physically unacceptable condition. However, massive gravitating bodies will exhibit a strong red Thus we can have red holes, infrared holes, or even radio holes - but not black holes.

DESCRIPTORS: (U) *Relativity theory, Gravity, Field theory, Solutions (General), Limitations, Constants, Reprints

IDENTIFIERS: (U) *Black holes, PE62101F, WUAFGL76490601

AD-A035 939 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) Research Study on Dynamics of the Solar Atmosphere.

DESCRIPTIVE NOTE: Final rept. 1 Jul 74-30 Sep 76,

OCT 76 23P

PERSONAL AUTHORS: Bell, Barbara ; Menzel, Donald H. ; Wolbach,

John G. ;

CONTRACT NO. F19628-75-C-0016

PROJECT NO. 7649

TASK NO. 06

MONITOR: AFGL

TR-76-0267

UNCLASSIFIED REPORT

- ABSTRACT: (U) The first section summarizes the theoretical studies carried out on loop prominences as current loops rather than magnetic lines of force, and on problems connected with the general theory of relativity. The latter studies lead to the conclusion, among others, that Black Holes are a mathematical fiction, impossible of physical existence. The following section deals with research in the general area of solar-terrestrial relations, one investigation directly in this area and the other, climate history, having at present only a potential for linkage to solar activity, and receiving only minor support from this contract. The former, begun under the predecessor contract, explores the relations between the intensity of coronal Fe XV emission, the level of geomagnetic activity, and the velocity of the solar wind, and was completed and published during the period of this contract.
- DESCRIPTORS: (U) *Solar atmosphere, *Astrophysics, Dynamics, Loops, Gravitational fields, Optics, Geomagnetism, Solar wind, Climate, Rainfall, Meteorological data, Weather stations, Statistical analysis, Floods, Sunspots

IDENTIFIERS: (U) Black holes, Maunder minimum, PE62101F, WUAFGL76490601

AD- 713 300 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) THE NATURE OF SOLAR FLARES,

69 12P

PERSONAL AUTHORS: Menzel, Donald H.;

REPORT NO. Scientific-3

CONTRACT NO. F19628-69-C-0077

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 70-0481

UNCLASSIFIED REPORT

Availability: Pub. in Proceedings of the Symposium on Solar Flares and Space Research, p363-367 1969.

SUPPLEMENTARY NOTE: Prepared in cooperation with Smithsonian Astrophysical Observatory, Cambridge, Mass.

ABSTRACT: (U) A solution of the magnetohydrostatic equation, in the presence of a predominantly vertical but diverging magnetic field indicates that the gas pressure will have a minimum at the axis of the field. The density, however, along a level surface, shows surprisingly small variation. Hence, the temperature, which is proportional to the pressure divided by the density, will also show a minimum on the axis. The coolness of the spot, therefore, arises from the tendency of a magnetic region to come to static equilibrium. Regions of low temperature, however, imbedded in the hot solar surroundings will tend to warm up as the result of energy transfer by radiation or convection. We may, therefore, expect that the magnetic region will be somewhat warmer than the equilibrium value. The extra heating causes the material to flow out from the spot, along the lines of magnetic force. The resultant expansion of the gas tends to keep the spot cool. Conditions are somewhat more complex in the neighborhood of a bipolar spot. Each spot will independently pump ionized plasma out along the lines of This pumping action will lead to an increase in

AD- 713 300 CONTINUED

temperature and pressure in the region directly between the two spots where the magnetic lines of force of the two components join one another. The region appears to be unstable and a breakthrough of the lines of force will cause a solar flare, with associated shock waves. Motion pictures taken with the coronagraph at the Lockheed Solar Observatory illustrate the phenomenon. (Author)

DESCRIPTORS: (U) (*SOLAR FLARES, MAGNETOHYDRODYNAMICS), MAGNETIC FIELDS, SUNSPOTS, SURFACE TEMPERATURE, THERMAL STABILITY, MATHEMATICAL MODELS, SHOCK WAVES, SOLAR CORONA, HEAT TRANSFER

IDENTIFIERS: (U) CORONAGRAPHS

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) Research Directed Toward the Observation and Interpretation of Solar Phenomena.

DESCRIPTIVE NOTE: Final rept. 1 Nov 68-31 Dec 71,

JAN 72 23P

PERSONAL AUTHORS: Bell, Barbard; Menzel, Donald H.;

CONTRACT NO. F19628-69-C-0077

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 72-0094

UNCLASSIFIED REPORT

ABSTRACT: (U) The first section summarizes the theoretical studies carried out on sunspot models, cosmic electrodynamics, and atomic theory. The second section describes coronal studies at eclipse, supported in part by this contract but primarily from other sources. The third section reviews a study of some statistical properties of sunspot cycles, with emphasis on their variation from cycle to cycle, with evidence for long-period fluctuation in solar activity which is not confined to the usual indices of spottedness. The concluding section is concerned primarily with long-term solar variations and climate history, including some research directed toward fuller identification of the climate fluctuations of the past century. (Author)

DESCRIPTORS: (U) (*SOLAR DISTURBANCES, SCIENTIFIC RESEARCH), SUNSPOTS, STATISTICAL ANALYSIS, SOLAR CORONA, SOLAR RADIATION, MAGNETIC STORMS, CLIMATE

IDENTIFIERS: (U) SOLAR PHYSICS

AD-A002 382 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) Research Study on Dynamics of the Solar Atmosphere.

DESCRIPTIVE NOTE: Final rept. 1 Jan 72-30 Jun 74,

JUL 74 20P

PERSONAL AUTHORS: Bell, Barbara ; Menzel, Donald H. ;

CONTRACT NO. F19628-72-C-0146

PROJECT NO. AF-7649

TASK NO. 764908

MONITOR: AFCRL

TR-74-0357

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ABSTRACT: (U) This report summarizes studies carried out in magnetohydrodynamics and a new form of gravitational force. It describes coronal studies at two eclipses, reviews an attempt to verify (with negative results) a finding by Gnevyshev that the sunspot cycle on the average has a double maximum, and covers research in the general area of solar-terrestrial relations. Relationships between the intensity of the extreme ultraviolet (EUV) emission-line corona, the level of geomagnetic activity, and the velocity of the solar wind are discussed.

DESCRIPTORS: (U) *Solar atmosphere, *Magnetohydrodynamics, Gravitational fields, Solar corona, Sunspots, Solar wind, Meteorology, Climate, Temperature, Pressure, Rain, Earth(Planet), Interactions

IDENTIFIERS: (U) OSO-6 satellite, OSO-7 satellite

AD- 016 923

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) THE ESTABLISHMENT OF A SOLAR OBSERVATORY AT SACRAMENTO PEAK, NEW MEXICO

MAY 53

PERSONAL AUTHORS:

MENZEL, DONALD H.; LOW, ROBERT J.; ADAMS,

VELMA A.;

CONTRACT NO. W19 122AC17

UNCLASSIFIED REPORT

USGO & CONT

DESCRIPTORS: (U) *ASTRONOMICAL OBSERVATORIES

AD- 045 391

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) VARIATIONS OF THE E-LAYER

AUG 54 1

PERSONAL AUTHORS: MENZEL, DONALD H.; WOLBACH, JOHN G.;

REPORT NO. SR19

CONTRACT NO. AF19 604 146

UNCLASSIFIED REPORT

USGO & CONT

DESCRIPTORS: (U) *IONOSPHERE, *RADIO WAVES, ELECTROMAGNETIC PROPERTIES, PROPAGATION

AD- 056 854

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) A DYNAMIC SPECTRUM ANALYZER FOR SACRAMENTO PEAK

JAN 55 1V

PERSONAL AUTHORS: MENZEL, DONALD H.; WARWICK, JAMES W.; LAWRENCE, ROBERT S.;

REPORT NO. SR20

CONTRACT NO. AF19 604 146

MONITOR: AFCRL TN55 270

UNCLASSIFIED REPORT

USGO & CONT

DESCRIPTORS: (U) *METEOROLOGY, *RADIOFREQUENCY SPECTROSCOPY, *SPECTRUM ANALYZERS, DESIGN, SOLAR ATMOSPHERE, SPECTROGRAPHIC ANALYSIS

PERSONAL AUTHORS: CONTRACT NO. (U) SCIENTIFIC REPT. NO. 38 AD- 098 489 HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY AF19 604 148 ₹ ATHAY, R.G.; MENZEL, D.H.; THOMAS, RAS; UNCLASSIFIED REPORT AD- 093 679 CONTRACT NO. PERSONAL AUTHORS: REPORT NO. (U) TORSIONAL OSCILLATIONS AND SOLAR MAGNETIC FIELDS MONITOR: HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY SEP 55 AFCRL TN56 270 SR35 AF 19 604 146 LAYZER, D.; KROOK, M.; MENZEL, D.H.;

ESCRIPTORS: (U) *MODELS (SIMULATIONS), *SOLAR ATMOSPHERE, DESIGN, ENERGY, ERRORS, HELIUM, SPECTROGRAPHIC ANALYSIS, TEMPERATURE

USGO & CONT

DESCRIPTORS: (U) *MAGNETIC FIELDS, *SUNSPOTS, SUN, THEORY

UNCLASSIFIED REPORT

AD- 108 370

PICATINNY ARSENAL DOVER N J FELTMAN RESEARCH LABS

(U) MEASUREMENT OF INTERIOR BALLISTIC PROCESSES - PART II

AUG 56 1V

PERSONAL AUTHORS: STADLER, HANS; GAWLIK, HEINZ; MENZEL, DIETER;

REPORT NO. T7

UNCLASSIFIED REPORT

DESCRIPTORS: (U) *INTERIOR BALLISTICS, *RECORDING SYSTEMS, *STRAIN GAGES

USGO & CONT

AD- 098 732

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) ON THE ORIGIN OF SOLAR RADIO NOISE

SEP ®®

PERSONAL AUTHORS: MENZEL, DONALD H.; KROOK, MAX;

REPORT NO. SR2

CONTRACT NO. AF19 604 1394

MONITOR: AFC

OR: AFCRL TN56 871

UNCLASSIFIED REPORT

USGO & CONT

DESCRIPTORS: (U) *EXTRATERRESTRIAL RADIO WAVES, THEORY

AD- 110 270

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) THE E LAYER OF THE IONOSPHERE

SEP 56 ₹

PERSONAL AUTHORS: MENZEL, D.H.; WOLBACH, J.G.; GLAZER, H.;

REPORT NO. **SR39**

CONTRACT NO. AF 19 604 146

MONITOR: AFCRL TN57 257

USGO & CONT

UNCLASSIFIED REPORT

DESCRIPTORS: (U) *IONOSPHERE, *WEATHER FORECASTING, CODING, METEOROLOGY, PUNCHED CARDS, SUNSPOTS, THEORY

AD- 110 216

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE

(U) CLASSIFICATION OF SOLAR PROMINENCES-I-1950

SEP 50

PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY;

REPORT NO. SR42

CONTRACT NO. AF19 604 146

MONITOR: AFCRL TN56 860

USGO & CONT

DESCRIPTORS: (U) *SUNSPOTS, CLASSIFICATION, PHOTOGRAPHIC ANALYSIS, SOLAR CORONA, SOLAR FLARES

UNCLASSIFIED REPORT

AD- 133 695

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) VARIATIONS IN THE THERMODYNAMIC STATE OF THE CHROMOSPHERE OVER THE SUNSPOT CYCLE

SEP 56 ₹

PERSONAL AUTHORS: ATHAY, R.G.; MENZEL, D.H.; ORRALL, F.Q.;

REPORT NO. SR46

CONTRACT NO. AF19 604 146

MONITOR: AFCRL TN57 223

UNCLASSIFIED REPORT

USGO & CONT

DESCRIPTORS: (U) *SOLAR CORONA, *SPECTROSCOPY, ABUNDANCE, INTENSITY, SOLAR ECLIPSES, SUNSPOTS

AD- 117 175

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) CLASSIFICATION OF SOLAR PROMINENCES. II. 1951

SEP 51 -66P

PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY;

REPORT NO. Scientific-3

CONTRACT NO. AF 19-(604)-1394

MONITOR: AFCRC TN-56-287

UNCLASSIFIED REPORT

USGO & CONT

DESCRIPTORS: (U) *SOLAR FLARES, ASTRONOMICAL OBSERVATORIES, CLASSIFICATION, SUNSPOTS

	DESCRIPTORS: (U) *PHOTOGRAPHIC ANALYSIS, *SULAK FLARES, CLASSIFICATION
DESCRIPTORS: (II) *SOLAR CORONA ANALYSIS	Ì
USGO & CONT	USGO & CONT
UNCLASSIFIED REPORT	UNCLASSIFIED REPORT
MONITOR: AFCRL TN57 232	MONITOR: AFCRL TN57 607
CONTRACT NO. AF19 604 148	CONTRACT NO. AF19 604 1394
REPORT NO. SR48	REPORT NO. SR4
PERSONAL AUTHORS: MENZEL, DONALD H.;	PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY;
SEP 56 1V	SEP 53 1V
(U) SOME ADVANCES IN SOLAR RESEARCH	(U) CLASSIFICATION OF SOLAR PROMINENCES-III-1952
HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARAT	HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY
AD- 133 805	AD- 133 841

USGO & CONT DESCRIPTORS: (U) *PHOTOGRAPHIC ANALYSIS, *SOLAR FLARES, CLASSIFICATION	UNCLASSIFIED REPORT	MONITOR: AFCRL TN58 406	CONTRACT NO. AF19 604 1394	REPORT NO. SR9	PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, SHIRLEY;	SEP 54 1V	(U) CLASSIFICATION OF SOLAR PROMINENCES-V-1953	HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY	AD- 152 557
DESCRIPTORS: (U) *PHOTOGRAPHIC ANALYSIS, *SOLAR FLARES, CLASSIFICATION	UNCLASSIFIED REPORT	MONITOR: AFCRL TN57 610	CONTRACT ND. AF19 604 1394	REPORT NO. SR5	PERSONAL AUTHORS: MENZEL,DONALD H.;JONES,F. SHIRLEY;	SEP 50 1V	(U) CLASSIFICATION OF SOLAR PROMINENCES-IV-1949	HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY	AD- 133 848

DESCRIPTORS: (U) *SOLAR FLARES, CLASSIFICATION, PHOTOGRAPHIC ANALYSIS	USGO & CONT	UNCLASSIFIED REPORT	MONITOR: AFCRL TN58 620	CONTRACT NO. AF19 604 1394	REPORT NO. SR13	PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY;	DEC 58 1V	(U) CLASSIFICATION OF SOLAR PROMINENCES-VII-1954	HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY	AD- 206 783
DESCRIPTORS: (U) *SOLAR FLARES, CLASSIFICATION, TABLES(DATA)	USGO & CONT	UNCLASSIFIED REPORT	MONITOR: AFCRL TN58 496	CONTRACT NO. AF19 604 1394	REPORT NO. SR11	PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY;	SEP 57 1V	(U) CLASSIFICATION OF SOLAR PROMINENCES-VI-1948	HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY	AD- 203 837

AD- 210 504

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) THE OPERATION OF A SOLAR OBSERVATORY AT SACRAMENTO PEAK, NEW MEXICO

DEC 58 1V

PERSONAL AUTHORS: MENZEL, DONALD H.; SMITH, HENRY J.; BELL,

BARBARA;

CONTRACT NO. AF19 604 146

MONITOR: AFCRL TR58 288

UNCLASSIFIED REPORT

USGO & CONT

ASTRONOMY, BIBLIOGRAPHIES DESCRIPTORS: (U)

AD- 230 029

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) CLASSIFICATION OF SOLAR PROMINENCES-VIII-1947

. 17 DEC 59

PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY;

REPORT NO. SR3

CONTRACT NO. AF19 604 4962

AFCRL MONITOR: TN59 639

UNCLASSIFIED REPORT

USGO & CONT

DESCRIPTORS: (U) *SOLAR FLARES, CLASSIFICATION, TABLES(DATA)

AD- 240 546

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) EVAPOROGRAPHY WITH SPECIAL APPLICATION TO THE MOON

JUN 60

₹

PERSONAL AUTHORS: INGRAO, HECTOR C.; MENZEL, DONALD H.;

REPORT NO. SR4

CONTRACT NO.

AF19 604 3074

MONITOR: AFCRL TN60 469

UNCLASSIFIED REPORT

Distribution: Reference only.

DESCRIPTORS: (U) *EVAPORATION, *INFRARED PHOTOGRAPHY, *MOON, *THERMAL RADIATION, ABSORPTION, CONDENSATION, DETECTORS, INFRARED RADIATION, MEASUREMENT, SURFACE PROPERTIES

AD- 234 798

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) CLASSIFICATION OF SOLAR PROMINENCES - IX - 1948

PERSONAL AUTHORS:

MENZEL, DONALD H.; JONES, F. SHIRLEY;

SEP 46

Ź

CONTRACT NO. AF19 604 4962

REPORT NO. SR5

MONITOR: AFCRL TNBO 243

UNCLASSIFIED REPORT

DESCRIPTORS: (U)
TABLES(DATA) *SOLAR FLARES, CLASSIFICATION, AD- 231 255

MENZEL (DONALD H) CAMBRIDGE MASS

(U) INTERACTION OF ELECTROMAGNETIC AND ACOUSTIC WAVES IN AN IONIZED MEDIUM

MAR 59

PERSONAL AUTHORS: MENZEL, DONALD H.; LAYZER, DAVID;

CONTRACT NO. AF19 604 3897

MONITOR: **AFCRL** TR59 403

UNCLASSIFIED REPORT

USGO & CONT

DESCRIPTORS: (U) *ACOUSTICS, *ELECTROMAGNETIC RADIATION, *IONOSPHERE, *RADIO WAVES, IONIZATION, MATHEMATICAL ANALYSIS, MODULATION, SOLAR ATMOSPHERE

AD- 246 546

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) RESEARCH DIRECTED TO THE STUDY OF PLANETARY ATMOSPHERES

OCT 60

PERSONAL AUTHORS: MENZEL, DONALD H.; DE VAUCOULEURS, G.;

CONTRACT NO. AF19 604 3074

AFCRL MONITOR: TR-60-414

UNCLASSIFIED REPORT

USGO & CONT

DESCRIPTORS: (U) *LIGHT, *PLANETARY ATMOSPHERES, *PLANETS, *REFRACTION, BALLOONS, BRIGHTNESS, MARS, *LIGHT, *PLANETARY ATMOSPHERES, PHOTOGRAPHIC ANALYSIS

AD- 698 694 3/1 20/5

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) THE ROLE OF COLLISIONS IN THE PRODUCTION OF FORBIDDEN EMISSION TRANSITIONS.

64 9P

PERSONAL AUTHORS: Menzel Donald H.;

REPORT NO. Scientific-2

CONTRACT NO. F19628-69-C-0077, AF 19(628)-5744

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 69-0390

UNCLASSIFIED REPORT

Availability: Pub. in Memoires de la Societe Royale des Sciences de Liege, ser5 v17 p113-115.

SUPPLEMENTARY NOTE: Prepared in cooperation with Smithsonian Astrophysical Observatory, Cambridge, Mass.

ABSTRACT: (U) If A(ab) is the Einstein probability for spontaneous transition from level a to b, and if C(ab) is the probability of collisional de-excitation of level a, many astronomers appear to believe that the atom will not radiate at all if C(ab) exceeds A(ab). This conclusion is based on the idea that an atom can radiate only if it has been in a given state for a time of the order 1/A(ab). Actually, the number of transitions, per second, from a volume containing N(a) atoms in level a is N(a)A(ab), irrespective of how long the atoms have been in level a. And N(a) for a given mass, will be greatest when collisions are frequent. (Author)

DESCRIPTORS: (U) (*ATOMS, *ELECTRON TRANSITIONS), (*NEBULAE, *ATOMIC SPECTROSCOPY), ATOMIC ENERGY LEVELS

IDENTIFIERS: (U) EMISSION SPECTRA, QUANTUM INTERACTIONS

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) OSCILLATOR STRENGTHS, f FOR HIGH-LEVEL TRANSITIONS IN HYDROGEN,

MAY 68 33P

PERSONAL AUTHORS: Menzel, Donald H.;

REPORT NO. Scientific-1

CONTRACT NO. F19628-69-C-0077

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 69-0301

UNCLASSIFIED REPORT

Availability: Pub. in Astrophysical Jnl. Supplement Series, v18 n161 p221-246 1969.

ABSTRACT: (U) The calulation of transition probabilities for high-level transitions in hydrogen proceeds most easily from a rapidly converging new formula. Two tables of f-values for transitions n + c yielding n are presented. Simple asymptotic formulas exist for transitions of large n and small c. The f's obey the sum rule, summation f = 1, despite the fact that many of the f's are much greater than unity. The paradox is resolved by the necessity of subtracting f-values for downward transitions. (Author)

DESCRIPTORS: (U) (*HYDROGEN, *RADIO ASTRONOMY), (*RADIOFREQUENCY SPECTROSCOPY, HYDROGEN), ATOMIC ENERGY LEVELS. OSCILLATION. ELECTRON TRANSITIONS. TABLES(DATA) AD- 681 573 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) OSCILLATOR STRENGTH FOR HIGH-LEVEL TRANSITIONS IN HYDROGEN.

MAY 68 8P

PERSONAL AUTHORS: Menzel, Donald H.;

REPORT NO. Scientific-5, HCO-3

CONTRACT NO. AF 19(628)-5744

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL

68-0477

UNCLASSIFIED REPORT

Availability: Pub. in Nature, v218 n5143 p756-757, 25 May 68.

SUPPLEMENTARY NOTE: Prepared in cooperation with Smithsonian Astrophysical Observatory, Cambridge, Mass.

ABSTRACT: (U) This paper gives a simple formula for oscillator strengths of large quantum number, where the change of quantum number is small. These oscillator strengths obey the f sum rule. (Author)

DESCRIPTORS: (U) (*HYDROGEN, ATOMIC ORBITALS), (*EXTRATERRESTRIAL RADIO WAVES, HYDROGEN), OSCILLATION, BESSEL FUNCTIONS, ELECTRON TRANSITIONS AD- 681 572 3/2 20/9

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) SUNSPOTS AND MAGNETOHYDRODYNAMIC FLOWS,

68 13P

PERSONAL AUTHORS: Anderson, Gerald F.; Menzel, Donald H.;

REPORT NO. Scientific-4, HCO-2

CONTRACT NO. AF 19(628)-5744

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 68-0476

UNCLASSIFIED REPORT

Availability: Pub. in I.A.U. Symposium, n35 p142-147

- ABSTRACT: (U) Theoretical techniques are developed to study compressible steady-state, magnetically aligned gas flows in sunspot regions. The flows are adiabatic and occur in a known streamline configuration. The non-linear parabolic partial differential equation describing the flow reduces to an ordinary linear differential equation. The solutions are briefly discussed. (Author)
- DESCRIPTORS: (U) (*SUNSPOTS, *MAGNETOHYDRODYNAMICS),
 ADIABATIC GAS FLOW, COMPRESSIBLE FLOW, MAGNETIC FIELDS,
 PARTIAL DIFFERENTIAL EQUATIONS, NONLINEAR DIFFERENTIAL
 EQUATIONS
- IDENTIFIERS: (U) PARABOLIC DIFFERENTIAL EQUATIONS

AD- 678 293 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) THEORY OF THE SOLAR CORONA.

DESCRIPTIVE NOTE: Interim rept..

MAR 68 8P

PERSONAL AUTHORS: Menzel, Donald H. ;

REPORT NO. Scientific-3, HCO-1

CONTRACT NO. AF 19(628)-5744

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 68-0397

UNCLASSIFIED REPORT

Availability: Pub. in Astrophysical Letters, v1 p195-196 1968.

ABSTRACT: (U) Solution of the magnetohydrostatic equations for a corona-like envelope surrounding a spherical star, leads to quantitative predictions of temperature, electron density, and variation of electron density with height, which agree closely with those known to exist in the corona. (Author)

DESCRIPTORS: (U) (*SOLAR CORONA, THEORY), MATHEMATICAL MODELS, SOLAR RADIATION, STARS, MATHEMATICAL PREDICTION, ELECTRON DENSITY, ANALYSIS OF VARIANCE, ALTITUDE

AD- 673 911 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) RESEARCH DIRECTED TOWARD THE OBSERVATION AND INTERPRETATION OF SOLAR PHENOMENA.

DESCRIPTIVE NOTE: Final rept. 1 May 67-30 Apr 68,

MAY 68 19P

PERSONAL AUTHORS: Bell, Barbara; DeMastus, Howard L.; Menzel, Donald H.;

CONTRACT NO. F19628-67-C-0247

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 68-0316

UNCLASSIFIED REPORT

- ABSTRACT: (U) The first section describes research at Harvard in two major categories: (1) Analyses of solar observations made at Sacramento Peak and elsewhere of the green coronal line, and of sunspots. (2) Theoretical studies in magnetohydrodynamics, leading toward development of a model for sunspots, and in atomic theory, on the intensities of spectral lines for improved interpretation of the solar spectrum. The second section reviews the operation at Sacramento Peak of the optical solar patrols of flares in the light of Ha, of sunspots in white light, and of the coronal emission lines by spectrograph and cinematograph; it also notes a photographic observation of a flare in white light. (Author)
- DESCRIPTORS: (U) (*SOLAR ATMOSPHERE, SUNSPOTS), SOLAR CORONA, PHOTOGRAPHY, EMISSIVITY, ASTRONOMICAL OBSERVATORIES, THEORY, MAGNETOHYDRODYNAMICS, SOLAR FLARES, LIGHT TRANSMISSION, INTENSITY, SPECTROSCOPY, SUN, LINE SPECTRA, HYDROGEN

IDENTIFIERS: (U) *SOLAR ACTIVITY

HARVARD COLL OBSERVATORY CAMBRIDGE MASS SOLAR DEPT

(U) RESEARCH DIRECTED TOWARD THE OBSERVATION AND INTERPRETATION OF SOLAR PHENOMENA.

DESCRIPTIVE NOTE: Final rept. 1 Mar 64-30 Apr 67,

MAY 67 33P

PERSONAL AUTHORS: Bell, Barbara; DeMastus, Howard L.; Menzel, Donald H.;

CONTRACT NO. AF 19(628)-3322

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 67-034B

UNCLASSIFIED REPORT

- ABSTRACT: (U) The first section describes research at Harvard in the following major categories: (1) Solarterrestrial studies, relating geomagnetic distrubances and shortwave radio fadeouts to aspects of solar activity. and investigating a possible influence of phase of the moon upon solar-terrestrial correlations. (2) Analysis of solar observations made at Sacramento Peak and elsewhere of prominences, sunspots, and the green coronal line. (3) Theoretical studies in magnetohydrodynamics. leading toward development of a model for sunspots; and in atomic theory, on the intensities of spectral lines for improved interpretation of the solar spectrum. The second section reviews the operation at Sacramento Peak of the optical solar patrols of flares in the light of H alpha, of sun spots in white light, and of the coronal emission lines. The calibration of the coronal spectrograph is discussed, and the Sacramento Peak scale compared to that used at other observatories. A cooperative effort, begun in 1964, between the Harvard patrol group at Sacramento Peak and the USAF Air Weather Service is described, including a training course program.
- DESCRIPTORS: (U) (*SOLAR DISTURBANCES, *IONOSPHERIC DISTURBANCES), (*SUN, SCIENTIFIC RESEARCH), SUNSPOTS, MOON, SOLAR FLARES, SOLAR CORONA, LINE SPECTRA,

AD- 655 402 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS SOLAR DEPT

(U) GENERAL CONCLUSIONS,

APR 67 11P

PERSONAL AUTHORS: Menzel, D. H.;

REPORT NO. Scientific-18

CONTRACT NO. AF 19(628)-3322

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 67-0217

UNCLASSIFIED REPORT

Availability: Published in Pubblicazioni del Comitato Nazionale per le Manifestazioni Celebrative del IV Centenario della Nascita di Galileo Galilei v2 n4 p336-41

ABSTRACT: (U) The Conference on Solar Magnetic fields was very successful. In addition to the basic information presented, the participants gained knowledge of one another's fields by the informal exchange of ideas. The topics ranged from instruments and instrumental techniques, through miscellaneous observational results to theoretical interpretation. The breadth of the conference contributed to its general success. (Author)

DESCRIPTORS: (U) (*SOLAR ATMOSPHERE, *MAGNETIC FIELDS), (*SOLAR DISTURBANCES, SYMPOSIA), SOLAR RADIATION, MAGNETOHYDRODYNAMICS, SUNSPOTS, SOLAR CORONA, SPECTROSCOPY, ASTROPHYSICS

HARVARD COLL OBSERVATORY CAMBRIDGE MASS SOLAR DEPT

(U) MAGNETIC FIELDS AND SMALL-SCALE STRUCTURE OF THE SOLAR ATMOSPHERE.

APR 67 16P

PERSONAL AUTHORS: Menzel, D. H.; Shore, B. W.;

REPORT NO. Scientific-15

CONTRACT NO. AF 19(628)-3322

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 67-0216

UNCLASSIFIED REPORT

Availability: Published in Pubblicazioni del Comitato Nazionale per le Manifestazioni Celebrative del IV Centenario della Nascita di Galileo Galilei v2 n4 p308-18

1966.

ABSTRACT: (U) The paper examines the perturbing effect of a rectangular gridwork of tufted magnetostatic fields on a static plane-parallel stratified plasma, as a possible idealized model of small-scale structure of the solar photosphere. (Author)

DESCRIPTORS: (U) (*SOLAR ATMOSPHERE, MATHEMATICAL MODELS)
, (*MAGNETIC FIELDS, SOLAR DISTURBANCES), SUNSPOTS,
CHROMOSPHERE, MAGNETOHYDRODYNAMICS, TEMPERATURE

AD- 653 573 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS SOLAR DEPT

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 (1955-1964) - SUMMARY.

MAR 67 49P

PERSONAL AUTHORS: Menzel, Donald H.; Jones, F. Shirley;

REPORT NO. Scientific-13

CONTRACT NO. AF 19(628)-3322

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL

UNCLASSIFIED REPORT

ABSTRACT: (U) The areas and behavior classifications of the prominences on the sun during Solar Cycle No. 19 are summarized, and a study is presented of the distribution of the various classes with solar latitude. During this solar cycle, 90 per cent of the prominences were of A types in which the material descended from the corona, and 16 per cent were of S types, associated with sunspots. The biggest class of prominences was the ANd or hedgerow type; the smallest, the ASI's of loop prominences. The overall trend in prominence areas was thus due mainly to the ANd prominences. North-south asymmetries of the areas reveal that for all classes of prominences together there was a northern excess except for the year 1961. (Author)

DESCRIPTORS: (U) (*SOLAR DISTURBANCES, ASTRONOMY), SOLAR CORONA, SUNSPOTS, ASTROPHYSICS, REVIEWS

AD- 651 132 3/1 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS SOLAR DEPT

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 - 1964,

DEC 66 95P

PERSONAL AUTHORS: Menzel, Donald H.; Jones, F. Shirley;

REPORT NO. Scientific-12

CONTRACT NO. AF 19(628)-3322

PROJECT NO. AF-7649

TASK NO. 764906

MONITOR: AFCRL 67-0035

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: See also AD-629 956.

ABSTRACT: (U) The report contains a tabulation and analysis of the behavior classification of prominences observed during 1964 at the Sacramento Peak Observatory, Sunspot, New Mexico. (Author)

DESCRIPTORS: (U) (*SOLAR DISTURBANCES, *CLASSIFICATION), (*SUNSPOTS, *ASTRONOMY), ASTRONOMICAL OBSERVATORIES, ANALYSIS, SUN, TABLES(DATA), INTENSITY, NEW MEXICO

AD- 629 956 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS SOLAR DEPT

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19-1963,

JAN 68 107P

PERSONAL AUTHORS: Menzel, Donald H.; Jones, F. Shirley;

REPORT NO. Scientific-6,

CONTRACT NO. AF19(628)-3322,

PROJECT NO. AF-7649

TASK NO. 764908,

MONITOR: AFCRL, 66-65

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ABSTRACT: (U) This report contains a tabulation and analysis of the behavior classification of prominences observed during 1963 at the Sacramento Peak Observatory, Sunspot, New Mexico. (Author)

DESCRIPTORS: (U) (*SOLAR FLARES, ASTRONOMY), (*SUN, SOLAR FLARES), ASTRONOMICAL OBSERVATORIES, NEW MEXICO, ASTRONOMY

3/2 AD- B47 280

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) SUNSPOTS, MAGNETIC FIELDS AND THE STRUCTURE OF THE SOLAR ATMOSPHERE.

15P SEP 66

PERSONAL AUTHORS: Menzel.Donald H. ; Shore, Bruce W. ;

REPORT NO. Scientific-10

CONTRACT NO. AF 19(628)-3322

PROJECT NO. AF-7649

TASK NO. 764906

AFCRL MONITOR: 66-679

UNCLASSIFIED REPORT

Availability: Published in Pubblicazioni del Comitato Nazionale per le Manifestazioni Celebrative del IV

Centenario della Nascita di Galileo Galilei v2 n2 p228-64 1966.

ABSTRACT: (U) Magnetostatic sunspot models are examined, and the effect of perturbing velocity fields is briefly noted.

DESCRIPTORS: (U) (*SOLAR ATMOSPHERE, MODELS(SIMULATIONS)) (*MAGNETIC FIELDS, SOLAR ATMOSPHERE), EQUATIONS OF STATE, VECTOR ANALYSIS, SUNSPOTS, SOLAR DISTURBANCES, MAGNETOHYDRODYNAMICS

AD- 618 001

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) MAGNETOHYDRODYNAMIC FLOW AND FORCEFREE FIELDS.

DESCRIPTIVE NOTE: Scientific rept..

FEB 64 11P

PERSONAL AUTHORS: Menzel, Donald H. ;

REPORT NO. SR-3

CONTRACT NO. AF19 628 3322 , AF19 604 4962

PROJECT NO. 7649

TASK ND. 764908

MONITOR: AFCRL, 65-247

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Pub. in Astrophysica Norvegica v9 n23 p225-32 Oct 1964(Copies available only to DDC users).

ABSTRACT: (U) The paper examines the equations of motion for a compressible gas of infinite conductivity in a magnetic field, in particular the cases of motion along the field, force-free fields, and motion along the current system. (Author)

DESCRIPTORS: (U) (*MAGNETOHYDRODYNAMICS, GAS FLOW),
MAGNETIC FIELDS, EQUATIONS, COMPRESSIBLE FLOW, MAGNETIC
PINCH, ELECTRIC CURRENTS, MOTION

AD- 625 381 3/2

HARVARD COLL OBSERVATORY CAMBRIDGE MASS SOLAR DEPT

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 - 1962,

OCT 65 119P

PERSONAL AUTHORS: Menzel, D. H.; Jones, F. S.;

REPORT NO. Scientific-5

CONTRACT NO. AF19(628)-3322

PROJECT NO. AF-7649

TASK ND. 764906

MONITOR: AFCRL, 65-841

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ABSTRACT: (U) This report contains a tabulation and analysis of the behavior classification of prominences observed during 1962 at the Sacramento Peak Observatory, Sunspot, New Mexico.

DESCRIPTORS: (U) (*SOLAR DISTURBANCES, ASTRONOMY), (*SUNSPOTS, ASTRONOMY), ASTRONOMICAL, NEW MEXICO

AD- 614 874

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) FILAMENTARY STRUCTURE IN SOLAR PROMINENCES.

MAY 64 24P

PERSONAL AUTHORS: Doherty, Lowell R.; Menzel, Donald H.;

REPORT NO. SR-2

CONTRACT NO. AF19 628 3322

PROJECT NO. 7649

TASK NO. 764906

MONITOR: AFCRL, 65-198

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Continuation of Contract AF19 604 4962. Pub. in Astrophysical Journal v141 n1 p251-71 Jan 1 1965 (Copies not available to DDC or Clearinghouse customers).

ABSTRACT: (U) Isobaric steady-state models of prominence filamentary structure similar to the models of Orral and Zirker are computed. The models have cylindrical symmetry and contain uniform longitudinal magnetic fields. Thermal conduction transverse to the field balances the net gain or loss of radiative energy at each point of the filament. To obtain models with central temperatures lower than Orral and Zirker's 30000K an approximate treatment of radiative transfer in the resonance lines of HI, He I; and He II have been concluded. Radiative losses from heavy ions and the effects of absorption of chromospheric and coronal radiation are also included.

DESCRIPTORS: (U) (*SOLAR FLARES, MODELS (STIMULATIONS)), (*ASTROPHYSICS, SOLAR FLARES), SUN, SOLAR ATMOSPHERE, SOLAR CORONA, THERMODYNAMICS, MAGNETOHYDRODYNAMICS, MATHEMATICAL MODELS

AD- 601 634

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) RESEARCH DIRECTED TOWARD THE PRODUCTION OF A MAP OF THE VISIBLE FEATURES OF MARS.

DESCRIPTIVE NOTE: Final rept.,

APR 64 56P

PERSONAL AUTHORS: Menzel, D. H.; Young, A. T.; de Vaucouleurs, G.; Finsen, W. S.; Leighton, R. B.;

CONTRACT NO. AF19 604 7461

PROJECT NO. 7698

TASK NO. 86500

MONITOR: AFCRL, 64 396

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ABSTRACT: (U) Areocentric coordinates of about 150
Martian surface features are determined from photographs
taken at the 1954 and 1956 oppositions. The data lead to
the tentative conclusion that the flattening of the solid
surface of the planet is about twice the dynamical value.
The coordinates of a large number of clouds and other
temporary features are also given. (Author)

DESCRIPTORS: (U) (*MARS, MAPPING), (*MAPPING, MARS), EXTRATERRESTRIAL TOPOGRAPHY, PHOTOGRAPHY, PHOTOGRAPHIC EQUIPMENT, PHOTOGRAPHIC MATERIALS, DATA PROCESSING, POSITION FINDING, PHOTOGRAPHIC IMAGES, ASTROPHYSICS

(U) RESEARCH DIRECTED TOWARD THE OBSERVATION AND INTERPRETATION OF SOLAR PHENOMENA.

DESCRIPTIVE NOTE: Final rept.,

OCT 64 23P

PERSONAL AUTHORS: deMastus. Howard L.; Menzel, Donald H.;

CONTRACT NO. AF19 604 4961

PROJECT NO. 7649

TASK NO. 764902

MONITOR: AFCRL, 64 712

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Work will be continued under Contract AF19 628 3322.

- ABSTRACT: (U) Refinements and continued operation of the combination H alpha prominence and green coronal camera provided motion pictures and daily surveys of prominences and corona. The H alpha flare patrol underwent significant improvements, and data acquisition rates were increased. Patrol observers became further engaged in both flare warning and subjective prediction services. Spectrographic observations of the solar corona and transient limb phenomena provided a continuation of routinely observed green and red coronal emission lines as well as a vast collection of special observations of bright limb phenomena. A white-light sunspot camera gave pictures of sunspots, granulation, and fine structure. Various theoretical and analysis studies were undertaken, based on the extensive patrol data, and on data from the Sacramento Peak 16-inch coronagraph and coelostat systems and their auxiliary spectrographs. (Author)
- DESCRIPTORS: (U) (*SOLAR ATMOSPHERE, SCIENTIFIC RESEARCH), (*SOLAR CORONA, SCIENTIFIC RESEARCH), SOLAR FLARES, SUN, SUNSPOTS, SPECTROSCOPY, CAMERAS, PHOTOGRAPHIC EQUIPMENT, ASTRONOMICAL OBSERVATORIES

(U) RESEARCH DIRECTED TOWARD THE INVESTIGATION OF SOLAR PHENOMENA.

DESCRIPTIVE NOTE: Final rept., 1 Jan 59-28 Feb 64,

FEB 64 28P

PERSONAL AUTHORS: Bell, Barbara ; menzel, Donald H. ;

CONTRACT NO. AF19 604 4962

PROJECT NO. 7649

TASK NO. 764901

MONITOR: AFCRL ,

64 275

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ABSTRACT: (U) The research falls into the following major categories: (1) Solar-terrestrial correlations, relating geomagnetic disturbance and solar proton (PCA) events to such solar features as the location (north or south of the solar equator) and magnetic class of the flaring sunspot, radio bursts of sprectral types II and IV and various properties thereof, and the brightness of the green coronal line. (2) Studies of solar prominences. involving both measurement and classification of observed prominences, and theoretical investigation of their structure and of physical processes important in their formation. (3) Studies of the rocket ultraviolet solar spectrum, with special attention to the Lyman-alpha line of hydrogen as a major source of opacity over several hundred angstroms. (4) Work on the calculation of theoretical transition probabilities for complex atoms. (5) Studies of other solar features including the sunspot zone, the positional relation of flares to sunspots, details of the solar disk in the light of H alpha, activity zones in the emission-line corona. (6) Miscellaneous theoretical analyses of solar seeing and of the influence of various atmospheric contaminants on the brightness of the daytime sky. (Author)

DESCRIPTORS: (U) (*SOLAR RADIATION, SOLAR DISTURBANCES), (*SOLAR SPECTRUM, SCIENTIFIC RESEARCH), (*SOLAR CORONA, SCIENTIFIC RESEARCH), SOLAR FLARES, SUNSPOTS, GEOMAGNETISM. MAGNETIC STORMS

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 - 1961.

FEB 64 28P

PERSONAL AUTHORS: Menzel, Donald H.; Jones, F. Shirley;

REPORT NO. 28

CONTRACT NO. AF19 604 4962

PROJECT NO. 7649

TASK NO. 764901

MONITOR: AFCRL 64 119

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ABSTRACT: (U) A tabulation and analysis is presented of the behavior classification of prominences observed during 1961 at the Sacramento Peak Observatory, Sunspot, New Mexico (Author)

DESCRIPTORS: (U) (*SOLAR DISTURBANCES, CLASSIFICATION), (*SUNSPOTS, ANALYSIS), ASTRONOMICAL OBSERVATORIES

IDENTIFIERS: (U) SOLAR PROMINENCES

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 - 1960.

FEB 64 32P

PERSONAL AUTHORS: Menzel, Donald H.; Jones, F. Shirley;

REPORT NO. 26

CONTRACT NO. AF19 604 4962

PROJECT NO. AF-7649

TASK ND. 764901

MONITOR: AFCRL 64 93

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ABSTRACT: (U) This report contains a tabulation and analysis of the behavior classification of prominences observed during 1960 at the Sacramento Peak Observatory, Sunspot. New Mexico. (Author)

DESCRIPTORS: (U) (*SUNSPOTS, CLASSIFICATION), DATA, TABLES(DATA). INTENSITY. SOLAR DISTURBANCES

IDENTIFIERS: (U) SOLAR PROMINENCES

AD- 434 151

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) GENERALIZED TABLES FOR THE CALCULATION OF DIPOLE TRANSITION PROBABILITIES IN LS - COUPLING.

FEB 64 62P

PERSONAL AUTHORS: Shore, Bruce W.; Menzel, Donald H.;

REPORT NO. 29

CONTRACT NO. AF19 604 4962

PROJECT NO. 7649

TASK NO. 764901

MONITOR: AFCRL 64 37

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

ABSTRACT: (U) Calculation of transition probabilities or oscillator strengths for allowed trasitions proceeds in two steps: calculation of the dipolemoment matrix in a simple coupling scheme (usually LS-coupling) followed by transformation of this matrix to the energy scheme. Though the oscillator strength for and transition is proportional to the square of a matrix element, the transformation step requires absolute values, including signs (=). Existing tables of line and multiplet strengths omit these signs, and hence are useful only when the atomic states are nearly LS-coupling states - ofter a poor approximation. (Author)

DESCRIPTORS: (U) (*ELECTRON TRANSITIONS, PROBABILITY), (*TABLES(DATA), ATOMIC ORBITALS), OPERATORS (MATHEMATICS), QUANTUM THEORY, ;ARMONIC OSCILLATORS

(U) THE EVOLUTION OF SOLAR PROMINENCES AND MAGNETOHYDROSTATIC MODELS OF THE SOLAR CORONA,

FEB 64 10P

PERSONAL AUTHORS: Menzel, Donald H.; Doherty, Lowell R.;

REPORT NO. 27

CONTRACT NO. AF19 604 4962

PROJECT NO. 7649

TASK NO. 764901

MONITOR: AFCRL 64 207

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Reprint from Solar Corona, pp. 159-160 and 307314, 1963. (Copies also available from DDC)

The evolution of solar prominences and magnetohydrostatic models of the solar corona: reprint from Solar Corona.

DESCRIPTORS: (U) (*SOLAR CORONA, ENERGY), HYDROGEN, HELIUM, MAGNETIC FIELDS, MATHEMATICAL MODELS, MAGNETOHYDRODYNAMICS

IDENTIFIERS: (U) SOLAR PROMINENCES

AD- 427 381

HARVARD COLL OBSERVATORY CAMBRIDGE MASS

(U) THE SUN'S MAGNETIC FIELD AND THE STABILITY OF SOLAR MARKINGS.

NOV 63 17P

PERSONAL AUTHORS: Menzel, Donald H.; Moreton, G. E.;

REPORT NO. 24

CONTRACT NO. AF19 604 4962

PROJECT NO. 7649

TASK NO. 764901

MONITOR: AFCRL 63 762

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Reprint from Solar Corona, pp. 315-329, 1963. (Copies also available from DDC)

ABSTRACT: (U) This paper relates to the interpretation of photographs taken at the Lockheed Solar Observatory with an H-alpha filter having a pass band of 0.5 Angstroms. Photographs taken at the line center refer to higher atmospheric levels than do those taken in the wings. The program of solar photography at Lockheed has featured the taking of records in rapid sequence at 10 sec intervals. Records taken approximately 0.5 Angstroms to the red or violet of the line center are relatively free from the complex bright and dark plages characteristic of chromospheric and prominence activity. (Author)

DESCRIPTORS: (U) (*SUN, MAGNETIC FIELDS), SOLAR
ATMOSPHERE, STABILITY, PHOTOGRAPHS, ASTRONOMICAL
OBSERVATORIES, BAND SPECTRA, DETECTION, SOLAR FLARES,
SOLAR DISTURBANCES, STEREOPHOTOGRAPHY

IDENTIFIERS: (U) SOLAR PROMINENCES, SOLAR MAGNETIC FIELDS

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AD- 414 706
  HARVARD COLL OBSERVATORY CAMBRIDGE MASS
(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE
     NO. 19 -- 1959.
  AUG 63
                33P
PERSONAL AUTHORS:
                   Jones. F. Shirley : Menzel. Donald H. :
MONITOR:
           AFCRL
           63 686
                    UNCLASSIFIED REPORT
SUPPLEMENTARY NOTE:
ABSTRACT: (U)
                A tabulation and analysis of the behavior
 classification of prominences observed during 1959 at the
 Sacramento Peak Observatory, Sunspot, New Mexico is given.
 Table I contains the measures of position and area. the
  intensity estimates, and the classification according to
  the Menzel and Evans scheme (1953) with the addition of
  the classes ASa (coronal rain in spot areas) and ANe
  (suspended clouds not associ ated with sunspots), of all
  prominences in the survey. (Author)
DESCRIPTORS: (U) (*SOLAR FLARES, CLASSIFICATION),
 CLASSIFICATION, ANALYSIS, TABLES(DATA)
IDENTIFIERS: (U)
                    SOLAR PROMINENCES
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NO. 19 - 1958,

APR 63 44P

PERSONAL AUTHORS: Menzel, Donald H.; Jones, F. Shirley;

REPORT NO. Scientific rept. no. 20

CONTRACT NO. AF19 604 4962

PROJECT NO. 7649

TASK NO. 764901

MONITOR: AFCRL

UNCLASSIFIED REPORT

ABSTRACT: (U) A tabulation and analysis of the behavior classification of prominences observed during 1958 at the

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE

Sacramento Peak Observatory, Sunspot, New Mexico, are presented. (Author)

DESCRIPTORS: (U) (*SOLAR DISTURBANCES, REVIEWS), (*SUN, SOLAR DISTURBANCES). SOLAR ATMOSPHERE, CLASSIFICATION.

IDENTIFIERS: (U) SOLAR PROMINENCES

63 458

AD- 409 688

ZOOLOGY

AD- 403 103

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) THE BRIGHTNESS OF THE SKY IN THE VICINITY OF THE SUN,

MAR 63 8P

PERSONAL AUTHORS: Menzel, D.H.; Sen, H.K.;

REPORT NO. SR19

CONTRACT NO. AF19 604 4962

PROJECT NO. 7649

TASK NO. 76490

MONITOR: AFCRL 63 240

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Reprint from Proceedings of the Symposium on Solar Seeing, 20-25 Feb 1981. (Copies also available from DDC)

ABSTRACT: (U) A study made of the scattering of small particles in the earth's atmosphere set a standard for studies of atmospheric pollution by dust, smoke, or other particles. The study takes into ac count the diffusion of particles from a source of pollution, such as an industrial chimney, and sets limits for the pollution in terms of sky brightness immediately surrounding the sun. (Author)

DESCRIPTORS: (U) *AIR POLLUTION, *SKY, *PARTICLE SIZE, HAZE, WASTE GASES, SMOKE, WASTES (INDUSTRIAL), COAL, MATHE

AD- 403 102

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) THE THEORY OF ATMOSPHERIC SEEING,

FEB 63 8P

PERSONAL AUTHORS: Menzel, Donald H.;

REPORT NO. SR18

CONTRACT NO. AF19 604 4962

PROJECT NO. 7649

TASK NO. 78490

MONITOR: AFCRL 63 220

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Reprint from Proceedings of the Symposium on Solar Seeing, 20-25 Feb 1961.

ABSTRACT: (U) This analysis expresses in quantitative terms formulae for describing the various phenomena associated with what astronomers conventionally term atmospheric seeing. This leads to a study of the effect of various convective and in homogeneous layers on the path of a ray of light. The quantitative results are discussed as ap plied to three distinct regions of the atmos phere. First is the internal or instrumental heating, particularly hazardous for solar ob servation. The second critical zone refers to seeing immediately above but in the vicinity of the instrument. The use of temperature inversions as a stabilizing influence may be important, because it will cut down the number of individual convective zones. The third zone is the higher atmosphere, associated with local weather and local geography. The study involves use of the theory of random flights to describe the total average deflection caused by the passage of the ray through discontinuities of temperature and density. (Author)

DESCRIPTORS: (U) *ATMOSPHERIC REFRACTION, *AIR, PARTIAL DIFFERENTIAL EQUATIONS, DENSITY, ASTRONOMY, THEORY, MATHEMATICAL REFRACTIVE INDEX.

AD- 402 858

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) SOLAR PROMINENCE ACTIVITY, 1944 - 1954,

DEC 62 10P

PERSONAL AUTHORS: Menzel, Donald H.; Jones, F. Shirley;

REPORT NO. SR15

CONTRACT: NO. AF19 804 4982

PROJECT NO. 7649

TASK NO. 76490

MONITOR: AFCRL

62 1082

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Reprint from R.A.S.C. Jnl., 5p. 193-202. (Copies not supplied by DDC)

ABSTRACT: (U) Solar prominences appearing on surveys made at the High Altitude Observatory, Climax, Colorado, and at the Sacramento Peak Observatory, Sunspot, New Mexico, were measured for size and position and each prominence was classified according to the Menzel-Evans (1953) scheme of classification. The authors compare prominence activity to spot activity, and study the distribution of the various classes with respect to solar latitude. During this period 93 per cent of the areas were in A-type prominences and 20 per cent were in S types. The hedgerow (AN) family of prominences is much the largest class; the spicules (BNs), the smallest. The activity of all classes except the spicules was greatest near spot maximum in 1947 and lowest almost two years before spot minimum in 1954. Up to and including 1947. southern areas predominated, and northern areas thereafter. (Author)

DESCRIPTORS: (U) *SOLAR DISTURBANCES, SOLAR, CLASSIFICATION.

IDENTIFIERS: (U) SOLAR PROMINENCES

AD- 400 744

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 - 1958

JAN 63 1V

PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY;

REPORT NO. SR16

CONTRACT NO. AF19 604 4962

MONITOR: AFCRL 63 200

UNCLASSIFIED REPORT

DESCRIPTORS: (U) *SOLAR FLARES, CLASSIFICATION, PERIODIC VARIATIONS

IDENTIFIERS: (U) SOLAR PROMINENCES

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19 - 1957

JAN 63

PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY;

REPORT NO. SR17

CONTRACT NO. AF19 604 4962

MONITOR: AFCRL

63 205

UNCLASSIFIED REPORT

DESCRIPTORS: (U) *SOLAR FLARES, CLASSIFICATION, PERIODIC

VARIATIONS

IDENTIFIERS: (U) SOLAR PROMINENCES

17

AD- 289 543

AIR FORCE CAMBRIDGE RESEARCH LABS L G HANSCOM FIELD MASS

(U) CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO. 19-1955

SEP 62 1V

PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY:

UNCLASSIFIED REPORT

ABSTRACT: (U) A tabulation and analysis is given of the behavior classification of prominences observed during 1955 at the High Altitude Observatory at Climax, Colorado, and at the Sacramento Peak Observatory, Sunspot, New Mexico. Similar studies for the years 1944 to 1954 have appeared in Scientific Report No. 42 under Contract AF19(604)-146; Scientific Reports No. 3, 4, 5, 9, 11, and 13 under Contract AF19(604)-1394; and Scientific Reports No. 3, 5, 7, and 9 under Contract AF19(604)-4962. A summary for the years 1944 to 1954, sunspot cycle No. 18, appeared as Scientific Report No. 12 under Contract AF19(604)-4962. (Author)

DESCRIPTORS: (U) *SOLAR DISTURBANCES, *SUNSPOTS

PICATINNY ARSENAL DOVER N J FELTMAN RESEARCH LABS

(U) NEW MEASURING METHODS FOR DETERMINING THE DIMENSIONS OF SMALL ARMS

17 DEC 61

MENZEL, D.; PERSONAL AUTHORS:

TN55 REPORT NO.

UNCLASSIFIED REPORT

USGO & CONT

ABSTRACT: (U) Consideration is given to newly developed methods and precision machinery which make it possible to measure large numbers of small arms. A new Swiss measuring device allows the measuring of bores accurately over their entire length. Also discussed is a new instrument for measuring the pressure resistance between bore and projectile, and one for testing the trueness of gages used in testing for chamber size.

*SMALL ARMS, GUN BARRELS, INSTRUMENTATION, INTERIOR BALLISTICS, MEASUREMENT, DESCRIPTORS: (U) TRANSLATIONS

TRANSLATIONS IDENTIFIERS: (U)

AD- 265 756

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

(U) CLASSIFICATION OF SOLAR PROMINENCES. XII. SUMMARY FOR 1944 TO 1954

1V OCT 61 MENZEL, DONALD H.; JONES, F. SHIRLEY; PERSONAL AUTHORS:

SR12 REPORT NO.

AF19 604 4962 CONTRACT NO.

AFCRL MONITOR: 882

UNCLASSIFIED REPORT

ABSTRACT: (U) The areas and behavior classifications of the prominences on the sun during solar cycle no. 18 are summarized, and a study is presented of the distribution of the various classes with respect to solar latitude. For all classes combined and for each, except the spicules, separately, activity reached a maximum near spot maximum in 1947 and a minimum nearly two years before spot minimum in 1954. During this solar cycle, 93% of the prominences were of A types in which the material descended from the corona, and 20% were of S types, associated with sunspots. The biggest class of prominences was the AN or hedgerow family; the smallest, the BN's or spicules. The overall trend in the prominence areas was thus due mainly to the AN prominences. Ratios of prominence areas to spot areas decreased from 1944 to 1947 and increased rapidly in 1953 and 1954. (Author).

DESCRIPTORS: (U) *CLASSIFICATION, *SOLAR FLARES, ASTRONOMY, ASTRONOMICAL OBSERVATORIES, MEASUREMENT, MOTION PICTURE FILM, SOLAR CORONA, SUNSPOTS, TABLES(DATA)

IDENTIFIERS: (U) SPECTROHELIOGRAMS

GEOPHYSICS CORP OF AMERICA BOSTON MASS

(U) OPTICAL REFRACTION IN A PLANETARY ATMOSPHERE WITH APPLICATION TO THE APPARENT DIAMETER OF A PLANET AND TO OCCULTATION

JUL 61

₹

PERSONAL AUTHORS: MENZEL, DONALD H.;

REPORT NO. TR61 33 A

CONTRACT NO. AF33 616 7413

UNCLASSIFIED REPORT

ABSTRACT: (U) Navigation within the solar system by optical means is investigated. The objective of the investigation is to evaluate the suitability of various physical phenomena as sources of navigational information and to estimate the accuracy of navigational information obtained by various techniques. (Author)

DESCRIPTORS: (U) *CELESTIAL GUIDANCE, *LIGHT HOMING, *PLANETARY ATMOSPHERES, *REFRACTION, *SPACE NAVIGATION, ASTRONOMY, ASTROPHYSICS, GUIDANCE, MATHEMATICAL ANALYSIS, OPTICS, PLANETS, SPACE FLIGHT, SPACECRAFT, STELLAR ECLIPSES

AD- 254 025

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

) CLASSIFICATION OF SOLAR PROMINENCES-XI-1944

APR 61 1V

PERSONAL AUTHORS: MENZEL, DONALD H.; JONES, F. SHIRLEY;

REPORT NO. SR9

CONTRACT NO. AF19 604 4962

MONITOR: AFCRL 262262

UNCLASSIFIED REPORT

ABSTRACT: (U) A tabulation and analysis are given of the behavior classification of prominences observed at the High Altitude Observatory at Climax, Colorado, during 1944. (Author)

DESCRIPTORS: (U) *SOLAR FLARES, CLASSIFICATION, INTENSITY, POSITION FINDING, TABLES(DATA)

(U) RESULTS OF THE OCCULTATION OF REGULUS BY VENUS, JULY 7, 1959 AD- 253 187 HARVARD COLL CAMBRIDGE MASS ZOOLOGY MUSEUM OF COMPARATIVE (U) THE OCCULTATION OF REGULUS BY VENUS AD- 251 664 HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZOOLOGY

PERSONAL AUTHORS: DE VAUCOULEURS, G.; MENZEL, D.H.; PERSONAL AUTHORS: JAN 61 7 MENZEL, DONALD H.; DE VAUCOULEURS, GERARD;

CONTRACT ND. AF19 604 7461 REPORT NO. SR 1

MONITOR: AFCRL 227227

UNCLASSIFIED REPORT

DESCRIPTORS: (U) *PLANETARY ATMOSPHERES, *STELLAR ECLIPSES, *VENUS, HEIGHT FINDING, PHOTOGRAPHIC ANALYSIS, PHOTOMETERS, STARS, TABLES(DATA)

IDENTIFIERS: 3 REGULUS MISSILES

IDENTIFIERS: ŝ *STELLAR ECLIPSES, PHOTOGRAPHIC TABLES(DATA), VENUS

DESCRIPTORS: (U)
ANALYSIS, STARS,

MONITOR:

AFCRL 258

UNCLASSIFIED REPORT

CONTRACT NO.

AF19 604 7461

REPORT NO.

Scientific-3

MAR 61

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REGULUS MISSILES

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3	

(U) CLASSIFICATION OF SOLAR PROMINENCES -X - 1945

JAN 61 **₹**

REPORT NO. SR7 PERSONAL AUTHORS:

Menzel, Donald H.; Jones, F. Shirley;

CONTRACT NO. AF19 604 4962

MONITOR:

AFCRL TN60-805

UNCLASSIFIED REPORT

DESCRIPTORS: (U) *SOLAR FLARES, CLASSIFICATION, POSITION FINDING, TABLES(DATA)

MUSEUM OF COMPARATIVE

(U) THE FINE STRUCTURE OF SOLAR PROMINENCES

FEB 61 ₹

MENZEL, DONALD H.; WOLBACH, JOHN G.;

REPORT NO. SR8 PERSONAL AUTHORS:

CONTRACT NO. AF19 604 4962

MONITOR: AFCRL 216

UNCLASSIFIED REPORT

DESCRIPTORS: (U) *SOLAR FLARES, ASTRONOMICAL CAMERAS, ASTRONOMY, PHOTOGRAPHS, PHYSICAL PROPERTIES, SOLAR CORONA

GEOPHYSICS CORP OF AMERICA BOSTON MASS

(U) STUDY OF THE INTERACTION OF ELECTROMAGNETIC RADIATION AND HYDROMAGNETIC WAVES AND SHOCKS IN AN IONIZED MEDIUM

SEP 61 1V

PERSONAL AUTHORS: MENZEL, DONALD H.; ACCARDO, CARL A.;

REPORT NO. TR61 39 A

CONTRACT NO. AF19 604 7353

MONITOR: AFCRL 766

UNCLASSIFIED REPORT

ABSTRACT: (U) A review of the classical Bailey-Martyn theory of cross modulation (Luxembourg effect) is given. A theory is developed for electromagnetic waves in a plasma leading to a dispersion relation that depends explicitly on the velocity-distribution function f(q,t) of the electrons. The complex index of refraction is determined by the isotropic part, of, f, and a formula for the time independent part of f is derived. The time dependent part of the function is reduced to a problem of determining the solution of a pair of simultaneous second order differential equations. Next follows a detailed discussion of the coupled pair of (quasi hypergeometric) differential equations. The magnetohydrodynamic interaction of a partially ionized gas with electromagnetic waves is considered and the resulting dispersion relation illustrates the coupling between mechanical and electromagnetic waves. (Author)

DESCRIPTORS: (U) *ELECTROMAGNETIC RADIATION, *IONOSPHERE, *MAGNETOHYDRODYNAMICS, DIFFERENTIAL EQUATIONS, IONIZATION, MATHEMATICAL ANALYSIS, MODULATION, SHOCK WAVES, THEORY

AD- 263 063

HARVARD COLL CAMBRIDGE MASS MUSEUM OF COMPARATIVE ZODLOGY

(U) ECLIPSE OVER THE MEDITERRANEAN

SEP 61 1V

PERSONAL AUTHORS: MENZEL, DONALD H.;

REPORT NO. SR11

CONTRACT NO. AF19 604 4962

MONITOR: AFCRL 838

UNCLASSIFIED REPORT

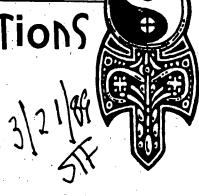
DESCRIPTORS: (U) *SOLAR ECLIPSES, EARTH MODELS, PHOTOGRAPHIC ANALYSIS, RECORDING SYSTEMS



Ancient HallUCinaTions

% Moseley P.O. Box 1709 Key West, Fl. 33041

March 11th, 1989



Dear Uncle Stan:

Re your Feb. 28th letter, I am surprised you find Mrs. Menzel's characterization of you so upsetting. I assume from having talked to Dr. Taves that her opinion predates any contact I have had with her. As far as I can recall, I have talked to her on the phone twice, and have received from her only the one letter which I published.

Furthermore, I have not supplied Mrs. Menzel with any information about you, either positive or negative. She was obviously upset and annoyed with whatever contact she had with you, quite awhile back, and has formed and opinion which has nothing to do with my opinion - even though my opinion is similar to hers.

How anyone could seriously believe that a man who wrote supposedly highly scientific though popular (?) books against UFOs, and whose hobby was, in effect, making fun of UFOs through doodles and paintings, could have been involved with an event which, if true, makes the atomic bombing of Japan seem like an everyday sort of thing. (There is something wrong with the structure of that sentence, but you know what I mean.)

You, of course, are the person (among others), who persists in believing that Menzel led the most extreme sort of "double life" that anyone could ever have lived. Howcum no one ever asked him to cool it, re his doodles and drawings, lest someone figure out from them his guilty knowledge of the UFO crash and alien bodies? Or was he trying to give out hints, or doing it out of frustration because he had to live with such a secret??? Come on, let's be reasonable!

I knew Menzel slightly, and unlike Klass, he was unable to laugh at himself. He took himself and his anti-UFO stand all too seriously. And I would agree with you, from what little I know about it, that he must reached out into left field to find some of his UFO solutions. Again, does this show his stubborn disposition or is it another sigh of your infernally illogical coverup??

I say again that whoever FAKED the MJ-12 documents threw Menzel's name in as the coup de grace - the cosmic joke of the century, ufologically speaking - and in spite of this obvious clue to the documents' fraudulence (?), you and your co-workers go right ahead Believing. It is a fantastic situation, as far as I am concerned.

Your comparison of Mrs. Menzel's attitude to the non-acceptance found in relatives of mass murderers, etc., as expressed in your previous letter, which I printed (that part of) in the forthcoming "Smear", is not likely to further endear you to Mrs. Menzel. I don't think she wants to feel like the widow of a mass murderer who missed the point while her husband was alive. I know you didn't mean it that way, and were only using mass murderers as an example, but she may not see your murky point.

I am not mad at you, and hope you are not mad at me - but I can't imagine why anyone owes you an apology. I think you owe an apology to the gods of Reason - if there are any. The only belief you have nuttier than your blind allegeance to MJ-12 is your belief in Betty Hill's star map - in my humble opinion. To me and most others, the star map is only a random thing.

Incidentally, I referred to correspondence between Menzel, Keyhoe, and Hillenkeetter, as published some years ago in the British F.S. Review, I believe, and unearthed recently by Allan. No one reading that correspondence could believe that Hillenkoetter and Menzel knew each other more than very slightly.

Read in the next "Smear" how Peter Gersten, after years of diligent searching for signs of interplanetary craft in the released portions of government documents, has thrown in the towel, and changed his mind. To wit, he has lost the Faith! Amen.

Regards, etc.,

P.S: Congratulations on manipulating Klass into losing \$1,000 to you. I'm glad he paid up. I love his covering letter with the check - copies of which he sent around.

STANTON T. FRIEDMAN NUCLEAR PHYSICIST - LECTURER

79 PEMBROKE CRESCENT FREDERICTON, NEW BRUNSWICK E3B 2VI CANADA

(506) 457-0232

Grand Master Jim Moseley Ancient Hallucinator Deluxe POB 1709 Key West, FL 33041

March 21, 1989

Dear Jim:

Your letter on the exotic stationery of March 11 arrived today. I am still in the dark about just what sequence of events took place that resulted in your publishing part of Mrs. Menzel's letter. At least now I understand that her comments were in a letter. How about spelling it out in a simple chronology. you called her, she called you, she sent aletter, you published letter... you solicited her viewpoint? She offered it without any prompting from you? How did she come to know of you? Is Taves behind all this? How about a copy of her letter??

Re Taves. I was in touch with him after the publication of the Menzel-Taves Book and sent my review. Menzel was dead by then. It was clear that Taves knew very little about UFOs in general or the specific cases in particular that were in the book... for example, the Waldo Harris Salt Lake City case. He promised to respond to my review.. more than once but never did.

Let us put some facts out on the table. You published a letter defaming me... without giving me a chance to respond, and without even bothering to correct two clearly false statements or insinuations in the letter:1. That I didn't know about Menzel's UFO files at the APS (some of his files are also at the Univ. of Denver, besides those at Harvard). 2. That for some nasty reason I waited until all 12 members of MJ-12 were dead to bring forth my MJ-12 suggestion. You had a copy of my IUR article which made clear that both of these charges were nonsense and therefore did not exercise due diligence in publishing the defamation.

I can guarantee you that Mrs. Menzel was not upset with me when I met with her. I visited her in the company of twomother persons. The meeting was definitely cordial and pleasant as I am sure the other two people would certify. As I mentioned to you, I do know that Menzel's former close associated and his daughter both raised quite a fuss sometime later, Though none of the three made any effort to contact me(to assuage their concerns.

I should add that I met her that one time, and that there was no further contact.

It is very easy to believe that a man who wrote three very unscientific books about UFOs and who, as you seem to forget, had also written science fiction books and stories, who worked on cryptanalysis, on very highly classified matters for apparently 2 decades or more, who was familiar with disinformation, and about whom there are literally hundreds of pages of testimony as to his discretion about classified matters, was in on the biggest story of the millenium.

I really cannot understand why you cannot believe that he could keep two separate lives going. He took great pride in his work on behalf of the country during World War 2 and afterwards as well. What made it possible for him to lead the 2 lives, was the simple fact that he was on the inside. You make it sound as though there are no spies roaming free having fooled their families and friends for decades. Surely you are not that naive. Dishiformation in the name of patriotism was very wide spread during World War 2..not only by spies but by Intelligence Agencies. Breaking both the German and Japanese codes was of enormous importance even though on occasion

Science Consultant • Lecturer • Author • Broadcaster

2 Friedman-Moseley

people had to make decisions which in effect, wound up in deaths because to take steps that would protect those people would tip off the enemy that the code had been broken. There are many people around today who have lived with terrible secrets from wars without their associates knowing anything about it. You live in Florida where killer Bundy was very helpful to some people. Think of the spies who managed to get by for decades...

The notion that using Menzel's name was a cosmic joke is frankly absurd. My first reaction to his name being on the list was that meant the document was a fake. But instead of jumping to that conclusion, I looked into the manner in considerable detail. I honestly believe that despite C.D. Allen's strange comments about Menzel, that I made discoveries about him that were simply not known to anybody in the ufological community prior to my work. These include his claim to have the longest continuous association with the NSA and its predecessor Navy group of anybody in the country.. to Jack Kennedy. His claim to having done work for the CIA, his claim to having a TOP SECRET ULTRA clearance (and not using it)when he went through the Loyalty Hearing which was also unknown, to the best of my knowledge. Who else knew of his close connection with Vannevar Bush, Detlev Bronk, Lloyd Berkner, his frequent trips to New Mexico and Washington DC at Government (not Harvard) expense in 1947 and 1948? Who knew that he made more retirement from his industrial consulting activities than from Harvard?How many knew he was an expert cryptanalyst, taught cryptanalysis and also worked on a variety of practical engineering problems during the war such as radio communication and how to shoot down an airplane when it comes at you from the direction of the sun?

income for

Surely there was a Roswell Incident involving the recovery of a crashed alien flying saucer. Surely the government would have had to respond to that using the best people available. Forrestal and Bush would have been the starting point. Forrestal would handle the military side, Bush the scientific. Obviously the recovery presented a very serious Intelligence problem so naturally the first 4 Directors of Central Intelligence were part of the team. Bush had organized an enormous scientific apparatus at the Office of Scientific Research and Development during the war . Dealing with a flying vehicle, is it suprising that Bush, Twining, Vandenberg, Bronk had all been members of NACA (Bush was Chmn prior to J. Hunsaker) that Hunsaker was at the time Chmn? You talk about forger pretty casually, but how is it the forger knew about little known details... like that Nov. 18, 1952, Ike was briefed by at least one member of MJ-12; that Sept. 24 was a very special date as the only one from May to December 1947 when Bush met with Truman.. Forrestal also present. Smart forgers who take the trouble to get right age paper, right old typewriters, familiar with Roswell and yet pick a date when Cutler was out of the country and never mention flying disc or saucer in either the Truman-For. memo or the Cutler-Twining and know enough not to either forge a signature on the Cutler Twining memo nor even put an /s/.. who know that Menzel had a very high level clearance in 1947 and would pass muster not only for clearance le yel but for close association with Bush. A forger who also knew of the use of such a strange phrase as your concurrence in the above arrangements is assumed. to a 4 star general. A forger who knew that Ike and Twining were both in town on July 16, 1954 , and that Ike was in touch with James Lay twice one 7/14/ and that PICA type would pass muster. Come off it, Jim. The realhoaxes were Menzel's three UFO books.. as anybody who reads the criticisms by 4 scientists (Bruce Maccabee, Jim MacDonald, Brad Sparks and myself)knows.

About sense of humor, Menzel took pride in being known by loads of kids as Uncle Don (Remember the radio program guy years ago)...a really funny notion is that Don Menzel would have told his family friends for associates about his very highly classified work even though everybody including one of the biggest sticklers for compartmentalization of classified material (Van Bush) stressed his discretion about classified matters.

Obviously you have not even seriously considered the evidence. By your failure to do so, you have subjected me to defamation. It is one thing to disagree about views. It is quite another to publish personal attacks. It isn't a question of who is angry at whom. It is a question of libel and my good name. Remember I am the one who did his homework---not you, Nothers. Menzel, not Phil Klass or Peter Gersten or CD Allan. There is an important difference between arm chair theorism and RESEARCH. Stan Friedman

Dear Sil.
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NATIONAL SECURITY AGENCY CENTRAL SECURITY SERVICE

FORT GEORGE G. MEADE, MARYLAND 20755-6000



Serial: J9093

23 FEB 1988

Brian Parks 19615 Mildred Avenue Torrance, CA 90503

Dear Mr. Parks:

This is in response to your Freedom of Information Act (FOIA) request of 9 January 1988 to the National Personnel Records Center (NPRC) for the personnel records of Dr. Donald H. Menzel. The NPRC did locate some records and has referred them to this Agency for review and release. In compliance with the consent requirements of the Privacy Act (PA), records on one individual may not be released to another without the consent of the indvidual to whom the records pertain if that person is living. You indicate in your letter, however, that Dr. Menzel died in 1976. Because the consent requirements of the PA do not pertain to deceased individuals, the records may be releasable to you under the provisions of the FOIA if you provide proof of death (e.g. death certificate or obituary). The processing of your request is being held in abeyance pending receipt of proof of Dr. Menzel's death.

As we notified you by letter of 16 December 1987 regarding your request to this Agency for Dr. Menzel's records, no records were located in our search for documents responsive to your request. Any records which would have been maintained by NSA apparently had been retired and forwarded to the NPRC.

Sincerely,

CAROL A. GARRETT Deputy Chief

Caul a. Hautt

Information Policy



NATIONAL SECURITY AGENCY CENTRAL SECURITY SERVICE

FORT GEORGE G. MEADE, MARYLAND 20755-6000



Serial: J9093A

2 2 MAR 1988

Brian Parks 19615 Mildred Avenue Torrance, CA 90503

Dear Mr. Parks:

This responds to your Freedom of Information Act (FOIA) request for the personnel records of Dr. Donald H. Menzel. As we stated in our letter of 23 Feburary 1988, the records were forwarded to this Agency by the National Personnel Records Center in response to your request to that Agency.

Your request has been processed under the FOIA and the documents you requested are enclosed.

One NSA/CSS internal organizational designator has been deleted from the enclosures. This deletion is exempt from disclosure pursuant to the third exemption of the FOIA which provides for the withholding of information specifically protected from disclosure by statute. The specific statute applicable in this case is Section 6, Public Law 86-36 (50 U.S. Code 402 note).

Since this deletion may be construed as a partial denial of your request, you are hereby advised of this Agency's appeal procedures.

Any person denied access to information may, within 60 days after notification of the denial, file an appeal to the NSA/CSS Freedom of Information Act Appeal Authority. The appeal shall be in writing addressed to the NSA/CSS FOIA Appeal Authority, National Security Agency, Fort George G. Meade, MD 20755-6000. The appeal shall reference the initial denial of access and shall contain, in sufficient detail and particularity, the grounds upon which the requester believes release of the information is required. The NSA/CSS Appeal Authority shall respond to the appeal within 20 working days after receipt.

Sincerely,

JON A. GOLDSMITH

Acting Director of Policy

Encls: a/s

Standard Form 58—5 Part Rev. July 1957 Promulgated by U.S. Civil Service Commission—FPM-R-1	NOTIFICATIO	N O	F PERS	ON	NEL A	ACTI-					
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STANDARD FORM 50 REV. APRIL 1981 PROMULGATED BY 9. S. CIVIL SERVICE COMMISSION CMAPTER 81, FEDERAL PERSONNEL MANUAL

NATIONAL SECURITY AGENCY

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STANDARD FORM 50 REV. APRIL 1981 PROMULGATED ST 9, 8. CIVIL SERVICE COMMISSION CMAPTER RI, FEDERAL PERSONNEL MANUAL

NATIONAL SECURITY AGENCY.

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REV. APRIL 1951
PROMULGATED BY
U. S. CIVIL SERVICE COMMISSION
CHAPTER RI, FEDERAL PERSONNEL MANUAL



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1. NAME (MRMISS-MRSONE GIVEN NAME, INITIAL (S), AND SI	URNAME)	2. DATE OF BIRTH		3. JOURNAL OR ACTION NO.	4. DATE
Dr. Donald H. Menzel		4/11/01		412750 mgc	6/28/56
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CONFLIC" OF INTEREST STATEMENT

- 1. Any individual who performs personal services for the United States under some form of appointment is subject to the conflict of interest statutes. As a NSA consultant you are responsible for complying with these laws and should be aware of them. The purpose of this memorandum is to protect you and to help prevent conflict of interest situations from arising in NSA. This is not a technical legal analysis of the statutes, but is primarily an effort to set forth in simple language for your guidance the acts prohibited by certain laws which have general application throughout the Federal government.
- 2. The provisions of the United States Code which restrict the private business activities of Federal officers and employees are commonly referred to as the conflict of interest statutes. These laws are based on the principle that no man can serve two masters. They attempt to protect the public interest by prohibiting Federal officers and employees from engaging in private activities which are incompatible with the duties and responsibilities of their public offices. Penalties for violation include both fine and imprisonment. Pertinent Sections of the U. S. Code which restrict outside business and activities generally are summarized below:
- a. Title 18, U.S.C., Section 216, prohibits a Federal officer or employee from receiving any consideration for procuring any contract with the United States.
- b. Title 18, U.S.C., Section 434, prohibits an officer, agent, or member of any private business entity, or anyone having a financial or pecuniary interest in a private company, from acting on behalf of the United States in transacting business with such private organization. This section also prohibits any Federal officer or employee from transacting any business as an officer or agent of the United States with a concern in which said Federal officer or employee is in any way pecuniarily interested. Two principal elements must be present in determining whether an activity comes within this statute. There must be an official connection with or a pecuniary interest in the private business entity and "transaction of business" on the part of the individual, as a government employee, with the private business entity in which he is interested. Any monetary or financial interest in a private business enterprise is probably sufficient to constitute a pecuniary or financial interest under the language of the statute. Pertinent examples of activities construed as "transaction of business" within the meaning of the act, and thus prohibited, are:
 - 1. Advising in connection with contracts or procurement when such advice is directed to the selection of a contractor with which the officer or employee has financial relationships.
 - 2. Advising on, recommending, and approving any matter when such is directed to the specific business advantage of the particular business entity in which the officer or employee is interested.

Inclosed is a copy of a directive of the Secretary of Defense which sets forth the policy of the Department with respect to situations involving conflict of interest with specific reference to Section 434 of Title 18, U.S.C. This disqualifies any officer or employee of the Department of Defense who has a financial interest in any business entity transacting or contemplating transacting business with the government from acting on behalf of the Department of Defense in any dealings with such business entity.

c. Title 18, U.S.C., Section 281, prohibits any officer or employee from receiving, or agreeing to receive, any compensation for any services rendered by

or other matter in which the 'nited States is interested, if he matter is being considered by any agency or instrumentality of the Federal government. The gist of this offense is the receipt of, or agreement to receive, compensation for the services rendered to the private person or business entity.

- d. Title 18, U.S.C., Section 283, prohibits any Federal officer or employee from acting as agent or attorney, or performing any assistance, in the prosecution of any claim against the United States other than in the discharge of official duties. This section prohibits gratuitous as well as compensated services.
- e. Title 18, U.S.C., Section 284, prohibits former officers and employees, within two years after their employment ceases, from prosecuting a claim against the United States involving any subject matter with which the former Federal employee was directly connected while in government employment. The statute prohibits gratuitous as well as compensated services.
- f. Title 5, U.S.C., Section 99, makes it unlawful for officers and employees, within two years after their employment ceases, to prosecute any claim against the United States which was pending during their Federal employment.
- g. Title 18, U.S.C., Section 1914, prohibits a Federal officer or employee from receiving any salary for the services performed by him for the government from any source other than the United States, except as may be contributed by any state, county, or municipality. This section provides also that no person, association, or corporation shall make any contribution to, or in any way supplement the salary of, any government official or employee for the services performed by him for the U.S. Government. The statute clearly covers a salary received from a private person or source if it is paid or received as compensation or part compensation for the services rendered to the government. It also has been held to apply if the officer or employee renders the same or similar services to both the government and a private person. It does not, however, prohibit payment for services rendered exclusively to private persons or organizations and which have no connection with the services rendered to the government.
- 3. It is anticipated that an NSA consultant will have private business interests, and he is not expected to dispose of such interests. Prior to your appointment, it was determined from the evidence available that no actual conflict of interest would result from your serving as an NSA consultant, on the understanding that your duties would not involve matters connected with your private employment. Since the law imposes a responsibility on both the Agency and the individual, this memorandum has been prepared to assist you in avoiding inadvertent involvement in potential conflicts of interest. If you now have any questions in this regard, it is requested that you refer them intially to the Chief of the Personnel Division. If at any time during your association with NSA a situation arises which suggests an actual or potential conflict of interest, the matter should be referred to the Director, NSA, for decision and action in accordance with the inclosed directive. In arriving at a decision, the Director will have available the advice of the General Counsel, who will also advise individual officers and employees upon their request.
- 4. After reading the above, if no substantial doubt arises in your mind as to a possible conflict of interest in your case, it is requested that you so indicate by signing your name below.

(Signature)

Incl:

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(Date

STANDARD FORM 50
REV. APRIL 1981
PROMULGATED BY
W. S. CIVIL SERVICE COMMISSION
CHAPTER RI,
PEDERAL PERSONNEL MANUAL

DEPARTMENT OF THE APMY

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Appointment Authority for the National Security Agency changed from 6.104(a)(11) to 6.104(a)(2) by Publication in the Federal Register, effective 2 June 1954.

FOR THE APPOINTING OFFICER

Chief, Administrative Section Civilian Personnel Branch

CIV PERS

WATICHAL SECURITY AGENCY Washington 25, D. C.

30 July 1954

SUBJECT: Letter Orders 1469, Temporary Duty

TO: DOMALD H. MENZEL, Consultant, WAR

- 1. You are hereby directed to proceed from Cambridge, Massachusetts, to Washington, D. C.; Paris, France; Brussels, Belgium; The Hague, Wetherlands; and to such other places as may be necessary for the successful completion of this mission for approximately twenty-three (23) days in connection with Mational Security Agency matters. You will report to Military Air Transport Service Terminal, Washington Estional Airport, Gravelly Point, Virginia, not later than 1000 hours daylight saving time on 13 August 1954, for military cir transportation to France, under AMD US-05-2D-3903-RAB. Upon completion of temporary duty you are to return to your proper station, Cambridge, Massachusetts.
- 2. Within CCEUS travel by military aircraft is directed where available and can be used without delay in the accomplishment of mission; otherwise, commercial transportation is sutherized. Outside CCMUS travel by government transportation is directed when available. In the event government transportation is not available commercial transportation is sutherized. A begginge allowance of sixty-five (65) pounds, personal effects, is authorized while traveling by aircraft. IDB. 2152020 503-5320 P2711-02 S49-170 (37516-02).
- 3. In lieu of subsistence, maximum per diem rates, subject to deduction of a fifth for each meal and/or ladging furnished without charge by a government agency, while traveling and absent from permanent duty station are authorized in accordance with CFR T3 dated Jamuary 1953.
- is. Immediately upon receipt of these orders, you are directed to effect peasport and necessary immunization requirements.
- 5. You are to attend the International Commission of the Ionospheric to be held in Brussels, Belgium from August 18 through August 23, and a meeting of the International Radio Scientific Union (URSI) at The Hague, Netherlands, being held August 23 through September 2, 1954, in a non-membership capacity.
- 6. Auth: Incl to Memo from SecDef, Subject: Arrangements to Provide Administrative Services for the National Security Agency, dated 19 May 1954.

BY COMMAND OF LIEUTENANT GENERAL CANTHE:

Bitty 9. Butler BETUT 1. EUTLER

1st Lt., WAC

Actg. Asst. Adjutumt General

DISTRIBUTION:

CIVPERS

SEC (Attn: Maj. Krezer)

CC-P KSARC

COMP (Payroll Br.) [DIVIDUAL CONCERNED (50)

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STANDARD FORM 50 REV. APRIL 1981 PROBULGATED BY U. S. CIVIL SERVICE CORMISSION CHAPTER RI. FEDERAL PERSONNEL MANUAL

DEPARTMENT OF THE ARMY

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15. 16. 17. APPROPRIATION SEX NACE 18. SUBJECT TO C.S. 19. DATE OF APPOINT. SEX NACE 19. LEGAL RESIDENCE RETIREMENT ACT (YEI-MO) NO 7/1/54. 10. LEGAL RESIDENCE RETIREMENT ACT (ACCESSIONS ONLY) STATE: 11. REMARKS: This action is subject to all applicable laws, rules, and regulations and may be subject to investigation and approval by the United States Civil Service Commission. The action may be corrected or canceled if not in accordance with all requirements. Appointment not to exceed 30 June 1955 or 90 working days whichever is earlier. To be employed on an intermittent banks, not entitled to earn leave. Appointment as Consultant (EAE) 2 \$50.00 per day terminated COB 7/1/54. PUIL HAME: Donald Howard Mensel Reviewed Posted Filed			WEW ATCE I	. A. INEAL	1	i			
Appointment as Compulant (WAB) @ \$50.00 per day terminated COB 7/1/54. Reviewed Filed					;				
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7/1/5h Satisfactory	7/1/54 Satisfactory		•		22. SIGNATURE OR OTHER AU	INCHITOATIVA			

STANDARD FORM 50
... REV. APRIL 1981
PROMULGATED ST
U. S. CIVIL SERVICE COMMISSION
CMAPTER RI, FIDERAL PERSONNEL MANUAL

DEPARTMENT OF THE ARMY

	•	A. DATE OF	BIRTH	3. JOURNAL OR ACTION	IO. 4. DATE
Dr. Donald H. Menzel			-		
This is to notify you of the following action affecti	nd vous em	3-11	<u>-01</u>	303840 11	7-1-53
5. NATURE OF ACTION (USE STANDARD TERMINOLOGY)	ing your enri	6.EFFECTIVE	DATE	7. CIVIL SERVICE OR OT	THER LEGAL AUTHORITY
	•] .			
Excepted Appointment		7-1-	53	Act of 8-2-46	(60 Stat. 810)
FROM				ТО	
·	8. POSITIO	N TITLE	Com	mitant WAE	
•			000	Marriage A SUR	
	9. SERVICE	C. SERIES,			· ·
•	GRADE.	SALARY	\$50.	.00 per day	
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	10. ORGANI			• •	_
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•	11. HEADQU	JARTERS	Wast	ington, D.C.	•
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X		18. SUBJECT 1	O C. S.	19. DATE OF APPOINT-	20. LEGAL RESIDENCE
FROM:		RETIREME (YES-N	NT ACT	MENT AFFIDAVITS (ACCESSIONS ONLY)	CLAIMED PROVED
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1. REMARKS: This action is subject to all application and approved by the United States	able laws,	rules, and	i regul	ations and may be	
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in not in accordance with all requirements appointment not to exceed 30 June 1: to be employed on an intermittent but	954. or	90 worki t entitl ROSE Chief	sion. The state of	ne action may be o	corrected or canceled is earlier.

STANDARD FORM 50 OCTOBER 1945 - PROMULGATED BY U. S. CIVIL SERVICE COMMISSION CMAPTER RI, FEDERAL PERSONNEL MANUAL

DEPARTMENT OF THE ARMY

1. NAME (MRMISS-MRSONE GIVEN HAME, INITIAL(S), AND SURNA	ME)	2 DATE OF BI	ATH	3. JOURNAL OR ACTION NO. 4. DATE			
Dr. Donald H. Menzel		4-11-	01	303840 15	5-12-53		
"his is to notify you of the following action affecting yo	ur employm	ent: 6. EFFECTIVE	0.75	1 7 CLUM SERVICE OF ATUES			
5. NATURE OF ACTION (USE STANDARD TERMINOLOGY)		o. EFFECTIVE	DAIL	7. CIVIL SERVICE OR OTHER	LEGAL AUTHORITY		
Fugant ad Armaint mont		5 32	53		((0.01.4.000)		
Excepted Appointment FROM		5-12-	25	Act of 8-2-46	(60 Stat 802)		
	8. POSITION	TITLE	Consultant WAE				
	9. SERVICE, GRADE, S.		\$50.00 per day				
	10. ORGANIZ. DESIGNA		N: 39	ational Security	y Agency		
	11. HEADQUA	ARTER\$	W;	ashington, D.C.	•		
FIELD DEPARTMENTAL	12. FIELD OR	DEPT'L		FIELD	DEPARTMENTAL		
13. VETERAN'S PREFERENCE		14. POSITION CL		TION ACTION .			
NONE WIVII OTHER 5-PT. 10-POINT DISABIOTHER		NEW VICE I.	A. REAL				
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15. 16. 17. APPROPRIATION	<u>_</u>	18. SUBJECT TO		19. DATE OF APPOINT-	20. LEGAL RESIDENCE		
SEX RACE FROM:	ļ	RETIREMENT (YES-NO		MENT AFFIDAVITS (ACCESSIONS ONLY)	CLAIMED PROVED		
N W TO: NSA			•	5-12-53	STATE:		
21. REMARKS: This action is subject to all subject to investigation and appr. The action may be corrected or ca. Appointment not to exceed ten working.	oval by nceled i	the Unite	ed Sta	etes Civil Servi	ce Commission.		
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To be employed on an intermittent be	a sis , no	ot entitl	ed to	carn leave.			
Full Name: Donald Howard Menzel.		. ;			,		
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PL: 513 ENTRANCE EFFICIENCY RATING:	•			uthuis. Spointing vince	etion		
5-12-53 Satisfactory	•			2 SIGNATURE OR OTHER AUT			

	RD FORM 60-NOV. 1949 IL SERVICE COMMISSION FEDERAL E	CATION FOR YMENT (SHOR	Y FO) DM\	For	OT WRIT	E IN THE	S BLOCK	
	UCTIONS.—In order to prevent delay in considerate	ion of your applica	tion, and	swer every	Notations	IL CIAN SO	In	mission Only	
applying	for a specific United States Civil Service examination	E OR PRINT IN	INK.	If you are			App	х от. 🔲	Submit
instruction	one on the admission card regarding disposition of t	WRITTEN exami	instion,	follow the	1		Ŭ Non	appor.	Return
ment. E	Be sure to mail to the same office any other forms me	o the omce named	in the		1		Applicat	tion review:	
The C	1. NAME OF EXAMINATION OR KIND OF POSITION APPL	hande in vour add	Iress.			-	1 • 1		:. •
l	Consultant				<u> </u>		Approve	e d :	
. ا	2. OPTION(S) (Specify option listed in the announced)	uncement for wh	ich you	wish to be	Option	Grede	Barned	Preference	Augm
Ŏ.				•		-	Rating	Preference	Ratin
TION	·	fen, if any) ((Last)				.	points (tent.)	
PPLICAT	Donald Howard	Ме	nzel			1	1	C 10	
¥.	4. (A) STREET AND NUMBER, OR R. D. NUMBER							D Wife	
-	32 Hubbard Park							Wife wildow	
	(8) CITY OR POST OFFICE (INCLUDING POSTAL ZONE)	• .					1 1		
¥	Cambridge 38 Ma S. PLACE OF EMPLOYMENT APPLIED FOR	sachusett						Mother Disal.	4
NNOUNCEMENT	Washington, D. C.	6. DATE OF BIRTH (Y-lainte and Date		!	Being	
CKC	7. PLACE OF BIRTH (city and State) if have and	April 11,	1901		Initials and Date	· · · · · · · · · · · · · · · · · · ·	<u> </u>	investi- gated	l
<u>Q</u>	side U. S., name city and country) Florence, Colorado	i			9. HEIGHT		10, WEIGHT	T .	
₹	HA (A) BUSINESS PHONE (B) HOME PHONE	Massachus	Sects	3	6 FEET IN	CHES	185	POUNDS	
]	ext. 2392 El 4-2202	12. MALE FEMALE	muni tion?	ast party, U.	or have you ever beer S. A., or any Commu	i, a memb nist or Fe	er of the Co scist organ	om. Yes	₽ N
13. (A) W	What is the lowest rate of pay you will accept? \$	50	17. A	tre you, or h	nave you ever been, a	member	of any orga	anization wh	ich (1)
per	day (You will not be considered for mo. day or hr.) with a lower entrance	CE ADV position	prove	acts of fo	erthrow of our form o orce or violence to de United States Consti Government by uncon	ny other	ment; or (2 persons th	(advocates	or ap.
(B) Check	k if you will accept temporary short-term appointmen		the r	ur answer i	to questions 16 or I	17 above	is "Yes,"		
,	1 to 6 months 6 to 12 months	j	any e	explanation	you desire regarding	nes in t	ne organi. nembershi	zation and ip or activit	
	Acceptance or refusal of a temporary short-term affect your opportunity to obtain a probational	n appointment l'appointment.	not in	lave you bed sclude traffic	en arrested since you	r 16th bis	mbday2 /I	D-	
(C) Other	locations in which you will accept employment.	1	// you	ur answer is ne date: (2)	onateral of \$25 or less o"Yes," list all such the patters of the se	.) cases in l	Item 26.	Give in eacl	h case
	i i		tion o	of the case.	If appointed, you	r finderpi	rints will b	or other du be taken.	aposi-
			If you	ur answer i	is "Yes," give in Ite byer, date, and reaso	m any poi im 26 the on in eac	sition? e name ar h case.	nd Yes	₽ no
SCOTOS /		Yes U No	II you	which should a second	y physical handicap, ld be considered in a "Yes," give comple	asigning y	you to work	k} ∟ ¥es	No naid-
	you ever been barred by the U. S. Civil Service		21. De	O VOL TECTIVE	e an appuity from the	Illainess	for this jo	ob.	
oce vice app	pointments? If your answer is "Yes," give dates no for such debarment in Item 26.	Yes No	other	compensatio	r any Retirement A on for military or na Aire complete detail	ct or any	y pension	or Yes	☑ No
D	THIS SECTIO	N FOR CLAIMIN	NG VET	ERAN PRI	FFFFFNCF				
point prefi	the have been honorably separated from active wartiference. In some cases, disabled veterans, widows of ference. CSC Form 14 contains information reg	me or campaign ser f veterans, wives of farding the proof		p. c				: .	itled to
	ou claiming 5-point preference based on wartime vice? If so, list dates of such service below:	Yes No	25. Hs U. S. (ive you eve Civil Service	r been granted veter	an prefer	rence by t	he Ve	W No
ITE OF ENTR	RY OR ENTRIES INTO SERVICE DATE OF SEPARATION OR	SEPARATIONS			the office of the Co inted preference:		n which n	otified you	that
	·		(Attac	h vour not	tice of preference al.	1) •	
NOTE	When claiming 5-point preference as a wartime veters furnish proof of honorable separation until the time of	an, you are not	turnec	3 10 700.7				_	• /•-
3. Are you sign vetera	I claiming 5-point preference as a peacetime cam-		The in		ICE FOR USE OF A				
	claiming 10-point preference?	Yes No	with th	e discharge	ontained in answer to certificate.	question :	22 above	has been ve	rified
YOU ADSH	wered "Yes" to question 23 or 24 obtain a copy to it according to instructions on the form, and	-1.CCC 5	Date		Signature				
	PR DETAILED ANSWERS TO OTHER QUESTIONS (Indicate	item numbers to					Title		
4 NO.		11	ITEM NO	 				<u>.</u>	
6) 1	1924-25 Instructor, Univers	ity of		-					
	Iowa, Iowa City,							•••••	
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4. To

27. (A) EDUCATION- Circle higher school: 1 2 3 4 5	st grade completed element	tary or brigh	(B) NAME OF HIGH SC		LOCATION	
DID YOU GRADUATE?	Ŭ Yes □ No Î	<u></u>	East Denve	er H.S.	Enver, Colo	rado
NAME AND LOCATION OF	COLLEGE, TRADE, SERVICE,	D	ATES ATTENDED : (1)	NUMBER YEARS COMPLETED		DID YOU GRADUATET
OR TECHNIC	CAL SCHOOL	FROM-		DAY NIGHT	KIND OF COURSE	YES NO
University of	Denver			A.P.1920	J. A.M. 1921	
Prince on Univ				A.H.192	3. Ph.D. 1924	
28. (A) ARE YOU NOW, OR HAVE YO	OU EVER BEEN A LICENSED MEN	MBER OF ANY TRAD	OR PROFESSION (such	as electrician, rac	dio operator, pilot, etc.)?	Yes No
If so, indicate kind of licens	e. State, and periods cove	ered by the licer	1409:	•	,	L IA L No
'		·	1			
(B) ARE YOU LICENSED TO OPERA	TE A MOTOR VEHICLE?	Yes No II	SO, WHERE?	1	· · · · · · · · · · · · · · · · · · ·	 -
				work. START W	ITH YOUR PRESENT J	OB AND WORK
29. EXPENIENCE: In the spaces be BACKWARD TO THE FIRS OR EXPERIENCE ACQUIR	ED DURING YOUR MI	LITARY SERVI	MILITARY SERVICE CE. Also list any per	E IN PROPER O inds of unemployme	RDER AND DESCRIBE ent in proper order as to date	ANY TRAINING
IMPORTANT: The inform	nation which you furnish in	this application v	nave never neig a job,	state that fact in th	he first block below. of appointment. It is therei	, , , , , , , , , , , , , , , , , , ,
describe supervisory experience	in any, civing the number	ell us just what y and types of emi	ou did on the job, bein	g sure to list any r	machines, instruments, or to	ula man mand Alaa
sheet of paper and attach to the	s application. Give us a co	mplete description	n of each job so that w	e can give you full i	credit for your experience.	
Name and complete addres Harvard Unive	ss of present employer	Exact title	of your job AC 0	niecro		
Hai Ati di Olli Ae	7 2T 6A	What work	do you do an this job?		raulon, teachir	5.
			•••••••••	research	<u> </u>	
Dates of employment (month,	vear)		•••••••			*************
3045				• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
From 1945	To present					***************************************
Rate of pay: \$15,000	Per vear		our supervisor Prov			
(2) Name and complete addres	is of employer	Exact title	of your job Line	on and Co	m, U.S.N.R.	• • • • • • • • • • • • • • • • • • • •
U,S, Navy		What work	did you do on this job	Research	and administrat	lon
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3047	•			•••••		•••••
From 1943 Rate of pay: \$ 5000-9000	т. 1945			17 M 10-		• • • • • • • • • • • • • • • • • • • •
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Earvard outve	rsity	What work	did you do on this job!	eeching,	research.	
Dates of employment (month.	vest)			edrinisur	aulon	• • • • • • • • • • • • • • • • • • • •
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		What work	did you do on this job	, researc	;T	••••••
Dates of employment (month.	vear)			• • • • • • • • • • • • • • • • • • • •		
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Rate of pay: \$	Per VECH	Name of yo	at supervisor			· · · · · · · · · · · · · · · · · · ·
S Name and complete address		Exact title	of your job ASS	istant Pro	Tessor	
Ohio State Unive	ersly,	What work	did you do on this job?	teaching,	research	
Colombus, Ohio Dates of employment (month,)	3 6.					
	_					
From 1925	т. 1926			;;		
	Per Vear			. Manson		of acomination of
If additional space is needed to li position for which you are applyi	ing, at the top of the sheet i	and attach to this	application. Continu	e the job numbers,	starting with number 6.	
30. REFERENCES: List in the space for whom you have worked, who	provided below the names have knowledge of your ex-	of five persons I perience and fitne	iving in the United St	ates and not relat which you are apply	ed to you, preferably perso ring. Do not repeat names of	ns with whom or Isupervisors listed
under Item 29 (Experience).		· · · · · · · · · · · · · · · · · · ·	PRESENT BUSINESS OF			
FULL NAM	4E 	(Give comple	ete current address, i		nd number) Ha Val	OR OCCUPATION
Edward S. Mason			ming St. Cen		ss. Dean G	r.Sch.
John H. Van Vle					lge, Mass, Harva	
Ralph S. Damon,	resident, Tw.		h Avenue, Ne		Y. Annl.	
Sem B. Warner		*;-*************	rd, Connecti		Editor	<i></i>
Leo Goldberg			of Michigan,		Mich. Dir. of	Observ.
31. May inquiry be made of your					·	
Before signing this application, c False statement on this applicati	on is punishable by law (U.	. S. Code, Title 18	S. Section 1001).	-		
I CERTIFY that the statements	made by me in this applica	ation are true, cor	nplete, and correct to the	best of my knowle	edge and belief, and are made	in good faith.
Date 13 Alay 19	7.5.3 sr 17	URE OF APPLIC	ANT So	rald	1/lensel	
		(S	ign your name in INI	C—one given n	initial or initials and su wown given name, as "Mr.	rname; if female, s. Mary L. Doe")
		p.				السيب والمستور والمستور

Department of Defense

(Department or agency)

APPOINTMENT AFFIDAVITS

IMPORTANT.—Before swearing to these appointment affidavits, you should read and understand the attached information for appointee

Washington, D.C.

(Place of employment)

16-55160-1

r, DR.Donald H. Menzel	do solemnly swear (or affirm) that—
A. OATH OF OFFICE	or anning the content of anning that—
I will support and defend the Constitution domestic; that I will bear true faith and alle	of the United States against all enemies, foreign and giance to the same; that I take this obligation freely evasion; that I will well and faithfully discharge the er, SO HELP ME GOD.
B. AFFIDAVIT AS TO SUBVERSIVE ACTIVITY AND	AFFILIATION
unconstitutional means or seeking by force or constitution of the United States. I do furth	not advocate nor am I a member of any organization ent of the United States by force or violence or other violence to deny other persons their rights under the er swear (or affirm) I will not so advocate, nor will not the period that I am an employee of the Federal
C. AFFIDAVIT AS TO STRIKING AGAINST THE FE	DERAL GOVERNMENT
I am not engaged in any strike against the so engage while an employee of the Government an organization of Government employees that	Government of the United States and that I will not not of the United States; that I am not a member of asserts the right to strike against the Government a Government employee, become a member of such
D. AFFIDAVIT AS TO PURCHASE AND SALE OF O	FFICE
	av. any money or other thing of volve to any more
E. AFFIDAVIT AS TO DECLARATION OF APPOINTE	
The answers contained in my Applicatio dated, file which I have reviewed, are true and correct as of	n for Federal Employment, Form No, ed with the above-named department or agency, f this date with the exceptions noted in the Declara- (If no exceptions, write "None" on the Declaration
	Some Mangel (Signature of appointed)
Subscribed and sworn before me this12	day of May A. D. 1953
'Arlington, Virginia	day of, A. D. 19.53.,
at (City)	(Biate)
Sec. 206 Act of June 26, 1943	obert W. Layce
[SEAL]	(Signature of officer)
NOTE.—If the oath is taken before a Notary Publ	(Title) ic the date of expiration of his commission should

DECLARATION OF APPOINTEE

This form is to be completed before entrance on duty. Question 3 is to be answered in all cases, otherwise

answer only those questions which require an answer different from that given to the corresponding questions on your application form. If no answers are different, write "NONE" in Item 10, below. Any false statement in this declaration will be grounds for cancellation of application or dismissal after appointment. Impersonation is a criminal offense and will be prosecuted accordingly. 1. PRESENT ADDRESS (street and number, city and State) 2 (A) DATE OF BIRTH (B) PLACE OF BIRTH (city or town and State or country) 1. (A) IN CASE OF EMERGENCY PLEASE NOTIFY (B) RELATIONSHIP (C) STREET AND NUMBER CITY AND STATE (D) TELEPHONE NO. 4. DOES THE UNITED STATES GOVERNMENT EMPLOY, IN A CIVILIAN CAPACITY, ANY RELATIVE OF YOURS (EITHER BY BLOOD OR MARRIAGE) WITH WHOM YOU LIVE OR HAVE LIVED WITHIN THE PAST 24 MONTHS? YES NO If so, for each such relative fill in the blanks below. If additional space is necessary, complete under Item 10. (1) POSITION (2) TEMPORARY OR NOT (3) DEPARTMENT OR AGENCY IN WHICH POST OFFICE ADDRESS RELATION-SINGLE NAME (Give street number, if any) RIED SHIP EMPLOYED onel (Chec 1.1 10. SPACE FOR DETAILED ANSWERS TO OTHER QUESTIONS INDICATE "YES" OR "NO" ANSWER BY PLACING "X" YES IN PROPER COLUMN WRITE IN LEFT COLUMN NUMBERS OF ITEMS TO WHICH DETAILED ANSWERS APPLY E. ARE YOU A CITIZEN OF OR DO YOU OWE ALLEGIANCE TO THE UNITED STATEST. ARE YOU AN OFFICIAL OR EMPLOYEE OF ANY STATE, TERRITORY, COUNTY, OR MUNICIPALITYT_ If your answer is "Yes", give details in Item 10. 7. DO YOU RECEIVE ANY ANNUITY FROM THE UNITED STATES OR DISTRICT OF COLUMBIA GOVERNMENT UNDER ANY RETIREMENT ACT OR ANY PENSION OR OTHER COMPENSATION FOR MILITARY OR NAVAL SERVICE? OTHER COMPERATION FOR MILLIANT CONTROL SEASON for retirement, that is, age, optional disability, or by reason of voluntary or involuntary separation after 5 years' service; amount of retirement pay, and under what retirement act; and rating, if retired from military or naval service. HAVE YOU EVER BEEN DISCHARGED, OR FORCED TO RESIGN, FOR MISCONDUCT OR UNSATISFACTORY SERVICE FROM ANY POSITION? If your answer is "Yes", give in Item 10 the name and address of employer, date, and reason in each case. 9. SINCE YOUR 16TH BIRTHDAY, HAVE YOU EVER BEEN ARRESTED, INDICTED, OR SUMMONED INTO COURT AS A DEFENDANT IN A CRIMINAL PROCEEDING, OR CONVICTED, FINED, OR IMPRISONED, OR PLACED ON PROBATION, OR HAVE YOU EVER BEEN ORDERED TO DEPOSIT BAIL OR COLLATERAL FOR THE VIOLATION OF ANY LAW, POLICE REGULATION, OR ORDNANCE (EXCLUDING MINOR THAFFIC VIOLATIONS FOR WHICH A FINE OR FORFEITURE OF \$25 OR LESS WAS IMPOSED)? If your answer is "Yes", list all such cases under Item 10. Give in each case: (1) The date; (2) the nature of the offense or violation; (3) the name and location of the court; (4) the penalty imposed, if any, or other disposition of the case. If appointed, your fingerprints will be taken. INSTRUCTIONS, TO APPOINTING OFFICER

The appointing officer before whom the foregoing certificate is made shall determine to his own satisfaction that this appointment would be in conformance with the Civil Service Act, applicable Civil Service Rules and Regulations and acts of Congress pertaining to appointment.

This form should be checked for holding of office, pension, suitability in connection with any record of recent discharge or arrest, and particularly for the following:

following:

(1) Identity of appointee.—The appointee's signature and handwriting are to be compared with the application and/or other pertinent papers. The physical appearance may be checked against the medical certificate. The appointee may also be questioned on his personal history for agreement with his previous statements.

(2) Ago.—If definite age limits have been established for the position, it should be determined that applicant is not outside the age range for appointment. Until such determination is made, the appointment may not be consummated.

(3) Citizenship.—The appointing officer is responsible for observing the citizenship provisions of (1) the Civil Service Rules and (2) appropriation acts. Form 61 constitutes an affidavit for both purposes and is acceptable proof of citizenship status in the absence of conflicting evidence. In doubtful cases the appointment should not be consummated until clearance has been secured from the certifying office of the Civil Service Commission.

(4) Members of Family.—Section 9 of the Civil Service Act provides that whenever there are already two or more members of a family serving under probational or permanent appointment in the competitive service, no other member of such family is eligible for probational or permanent appointment in the competitive service. The appointments of persons entitled to veteran preference are not subject to this requirement. The members-of-family provision does not apply to temporary appointments. Doubtful cases may be referred to the appropriate office of the Civil Service Commission for decision.

Dean McGeorge Bundy National Security Council Room 380 - Executive Office Bldg. Washington, D. C.

Dear Mac:

My best wishes to you on your new adventure in Washington. In connection with your new job, if there is anything that I can ever do to be of assistance, please do not hesitate to call. I have made you personally aware of those sensitive areas in the government where I have some special knowledge that might be of help.

Finally, I want to thank you for the fine support you have given me at the observatory. I have enjoyed working with you and I must say that it has been a lot of fun seeing Harvard astronomy grow.

Cordially yours,

Donald H. Menzel

Director

DHM: ejc

John Fitzgerald Kennedy Library

Columbia Point Boston, Massachusetts 02125

Telephone: (617) 929-4582

929-4500

October 7, 1987

Brian Parks 19615 Mildred Avenue Torrance, CA 90503

Dear Mr. Parks:

Enclosed is the material you requested. I apologize for the delay in sending it to you. If you need any further information concerning the Library's holdings, please let me know.

Sincerely,

Suzanne K. Forbes

Archivist, Foreign Policy Materials

Enclosures

IV1/1001/5/11 Combile

THE WHITE HOUSE WASHINGTON

February 1, 1961

Dear Donald:

Thank you for your note and the copy of the letter which you sent to Luther Hodges.

I am happy that you were able to persuade Irving Pratt to assume the Chairmanship of the Visiting Committee. I rather doubt that it will be possible for me to come to the April meeting this year.

The possibility of addressing the International Astronomical Union is an intriguing one, but I could only hope to do it if I am in the West during that period of time. Perhaps later in the year you could write me again to see whether there is any possibility of my accepting such an invitation.

With all best wishes,

Sincerely,

Professor Donald H. Menzel
Director, Harvard College Observatory
Cambridge 38, Massachusetts

President John F. Kennedy The White House Washington, D. C.

Dear Jack:

Your State of the Union message on Monday was wonderful!

I liked it from start to finish. In particular, I liked your position in the field of rockets, satellites and planetary probes. I had already indicated to you in an earlier note that Russian cooperation in these areas is by no means an impossibility. Perhaps some detailing of my contacts may be of help.

I visited Russia in August 1959, as a representative of the committee planning for the Seattle World's Fair in 1962. You are aware of this activity from our brief, chance meeting in Seattle during the campaign.

I have proposed that, in the U. S. exhibit, one of the major attractions would be a life-like model of a portion of the lunar surface, appropriately lighted, showing an expedition to the moon. This seemed appropriate, since the theme of the exposition is Century XXI.

I made the point, however, that--at least by century 21-the U. S. and the U. S. S. R. should have resolved their differences somehow and be cooperating in space research. Thus
I proposed that the exhibit be prepared jointly by the U. S. and
the U. S. S. R., with the possible cooperation of other countries
having space potentiality. And that the device over the main
structure should be the flag of the United Nations rather than of
some one country.

The space scientists at the Moscow National Academy were very much interested in the proposal. And, as part of our discussion, we even explored the possibility of bringing this joint research into the realm of early realization.

When I returned in the summer of 1960, however, the political climate was very different. The U-2 had frozen out the Russians, and they showed little enthusiasm for participation. The situation

was worsened by some high decision that Russian participation would not be welcomed in the U. S. pavilion. I was, therefore, forced to change my approach, offering them space in the Seattle Coliseum, giving them free reign to produce their own exhibit, but on a non-cooperative basis. They were polite, but to date we have not had any response to these suggestions.

But, as you well know, the Kremlin changes its temperature overnight. These opening negotiations might provide a basis for discussion. They are well aware of our superiority in the instrumentation of rockets, as you said. And they are also well aware of their own superiority in the powered vehicle. Active collaboration in a space program could advance our knowledge far more rapidly than could either country, working alone.

Sincerely yours,

Donald H. Menzel
Director

2-2-1961

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fly any stays

HARVARD COLLEGE OBSERVATORY

CAMBRIDGE 38, MASSACHUSETTS

Mar 3 12 18 PH 61 RECEIVED

March 1, 1961

President John F. Kennedy The White House Washington 25, D. C.

Dear Jack:

Thank you for your letter of February 1, relative to the possibility of addressing the International Astronomical Union in Berkeley in August. I hope that your schedule will make it possible and I shall write you again, later on, as you suggest. If you should be unable to come, is there any possility of our having Adlai Stevenson? Members of the Executive Committee consulted favor him for second choice by a wide margin.

For your information, Irving Pratt has decided on May 5 for this year's meeting of the Observatory Visiting Committee. You will shortly receive an official notice of the program, in case you find it possible to participate in any portion of it.

Have just returned from the Italian Riviera, where I saw a most beautiful total solar eclipse.

With my very best regards, I am

Cordially yours,

Donald H. Menzel

DHM/bfc

Director

filed By the Station

June 7, 1961

m

Dear Don:

I have yours of June 1st about the Boyden Observatory, and I must say my own strong inclination is to agree with you that the status quo is the best arrangement. I should avoid any formal connection with a segregated university, but on the other hand, I should not think the situation had yet moved to a point at which we would do well to close out. My own ignorant guess is that it would be very expensive and essentially unprofitable to move the equipment out of South Africa.

I wish I could have a chance to talk to you about this, but the truth is that I really have nothing to add to this brief comment. I feel sure that your own judgment is a sound guide to action, and unfortunately I am not going to be in Washington during your next visit.

Sincerely,

McGeorge Bundy

Mr. Donald H. Menzel
Director
Harvard College Observatory
Cambridge 38 Massachusetts

RESISTANTAL SELECT December II, 1961 Dear Professor: Thanks very much for sending to me the Annual Report of the Harvard Observatory. I am delighted to know of the progress which you have made during the past year as well as the plans which you outline for the months and years ahead. Your report is evidence of an unusual year of achievement and promise. With every good wish, Sincerely. John 4. Kennedy Professor Donald H. Menzel Director Harvard College Observatory Cambridge 38, Massachusetts cc: Mr. Holborn FLH:kr

Dear Professor Mensel:

The President has asked me to thank you for your letter and the report to the Overseers' Committee to Visit the Department of Astronomy.

It is good to hear that you are well again.

Sincerely yours,

Frederick L. Holborn Special Assistant in the White House Office

Professor Donald H. Menzel Director Harvard College Observatory Cambridge 38, Massachusetts

Dear Dr. Menzel:

The President has asked me to thank you for your Easter greeting and to assure you that he appreciates both the message and the originality!

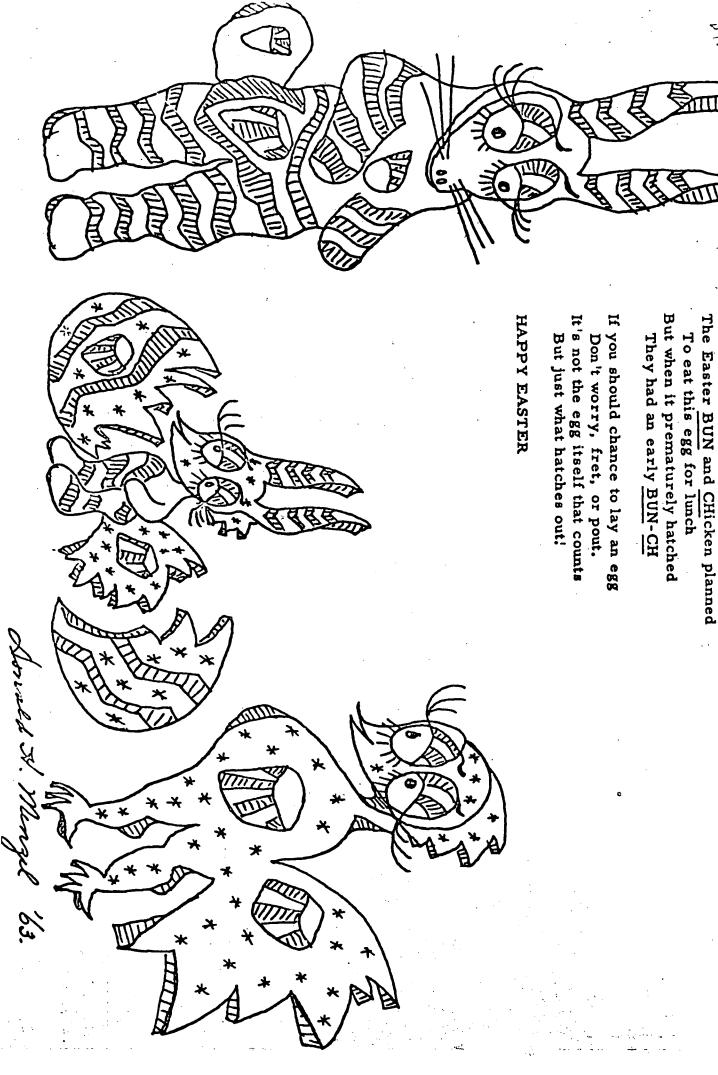
With the President's kind regards and best wishes,

Sincerely,

Ralph A. Dungan Special Assistant to the President

Dr. Donald H. Monsol
Director
Harvard College Observatory
Cambridge 38, Massachusetts

CW 8



HARVARD COLLEGE OBSERVATORY CAMERIDGE 38, MASSACHUSETTS November 6, 1963 Mr. John F. Kennedy The President The White House Washington, D.C. Doar Mr. Kennedy: I enclose my current annual report. Our pressent continuing need, as last year, is that for office, research, laboratory, and student space. The needs have become even more acute during the last year. I have had some encouraging discussions with NASA, but some portion of "matching funds" would probably stimulate their action. Although, in my opinion, Harvard's radio corrememy has my ា **ន**ៀបនេះ នៃ នៅ Edvances over recent years, it is quite clear that we shad need to hell larger, new, eteerable dish than any new in effectines. A dish 300-7 is ladicated. Although come government fund will probably be made to labely here again we shall need come matching funds. The Harvard Graduate School in Altronomy has shown another jumy. We have, currently, 44 students. Thanking you for your interest in the observe any and your emodular ment, Iam DHM/sc

From the Desk of

JOHN F. KENNEDY

The love iner ber for an answer for the President to Mr. Menzel?



1173

Cont. No.

President John & Tennody -Sean facks -After some 6 neeks in South africa, I am getting a bit of rest in mallarca. I have just learned that the fate of the 600-foot NRL-dish is in your hands. I have been -all aspects and strongly recommend its Continuance. It can and mel contribute to security. The scentific, benefits mil be exceptional. Completion mill inable an important SAT Cont. No. 1173

radio astronomy over the sussians. Cuthing its size to 400 instead of 600 miles probably not save much funds. I have already discussed the with Jerry thesner but now appeal directly to you. to save Sugar grave. With best regards - Sam Codinely yours " Migueson of prosto Sound S. Amer Menzel Lincton Harbard College Observatory Tambridge, Mass Between to US Aug 8 and wind be available any lime after that

HARVARD COLLEGE OBSERVATORY

CAMBRIDGE 38. MASSACHUSETTS

August 22, 1962

THE WHITE HOUS.

President John F. Kennedy The White House Washington, D.C.

Aug 23 1 52 PH '62 RECEIVED

Dear Jack:

Thank you very much for your letter of August 7 and the report contained therein relative to the Sugar Grove antenna. When I read the report, I find that I must concur with its conclusions, though I do so reluctantly.

I enclose herewith a couple of copies of a recent address that I made to the Modern Language Association on the very problem that you (and Congress) now face, the apparently high cost of research in Space. Although I very much doubt it, you may find some useful ideas in my argument favoring a strong Space Program.

Thanking you again and with best personal regards,

I am

Cordially yours,

Donald H. Menzel

DHM/db

cc: J. Wiesner

Encl. /

Director

NEN 3E

August 7, 1962

Dear Don:

Thank you for your letter outlining your views on the Sugar Grove radio telescope problem. Shortly before I received your letter, a final decision was made to cancel the project.

I suspect that you may not be familiar with the latest developments relating to this project. On the basis of extensive study, the interested agencles within Government have agreed that the radio telescope would be of marginal value for national security purposes. At the same time, the estimated total cost of the project increased to over \$200 million. While it is recognized that the Sugar Grove radio telescope could contribute to many scientific projects, it was agreed that the purely scientific value of the instrument could not justify the very high cost of the project. This conclusion was supported by the findings of a special panel that reviewed the scientific aspects of the question for Jerry Wiesner. I am attaching a copy of the Panel's Report, which I am sure will be of interest to you.

I share your distress in the cancellation of this major project. The project has been examined very carefully and sympathetically to determine whether purely scientific objectives could justify its continuation. However, when it became clear that the scientific value of the project would not justify the very high cost involved, I concluded that I had no

alternative but to approve the agreed recommendation that the project be terminated.

If you should like any further information regarding the decision I suggest that you contact Wiesner who followed the recent review very closely.

Sincerely.

Enclosura

J.B. Wiesner/SMK:pa

cc: President's File

WH Central Files ()

Dr. Wiesner's File

Donald H. Menzel
Director
Harvard College Observatory
Cambridge, Massachusetts

THE WHITE HOUSE

WASHINGTON

July 25, 1962

MEMORANDUM FOR

THE PRESIDENT

I suspect that Don Menzel must be out of touch with the skyrocketing costs of the Sugar Grove radio telescope and the fact that it is now almost universally agreed to be of marginal value as an intelligence or communication device. When it became clear last spring that DOD was going to find it impossible to justify continued construction at a total cost exceeding \$200 million, I had a group of the country's best radio astronomers spend a day with me examining the question of its value as a scientific instrument. The panel report is attached. While it was generally agreed that there were many useful things it could do, the panel did not believe that an expenditure exceeding \$100 million could be justified for its scientific objectives. In fact, I could not get the group to agree that the telescope would even represent the best use of \$50 million if such a sum were available to enhance our radio astronomy effort. I have marked the pertinent part of the panel's report.

Incidentally, I share Don Menzel's distress at the project's demise and tried hard to convince myself that I should recommend its continuance. However, I finally concluded that there was no rational scientific basis on which I could defend such a position.

Would you like me to prepare a reply?

Jerome B. Wiesner

HARVARD COLLEGE OBSERVATORY

CAMBRIDGE 38, MASSACHUSETTS

November 12, 1957

Mr. Robert G. Lake 1732 Freeman St. Toledo 6, Ohio

Dear Mr. Lake:

There is one slight misprint at least that appeared in the newspapers. I did not say that mirages were the only sources of UFO reports. I do think that the Texas sightings were of this type, however, and I have seen objects myself that behaved in precisely the matter reported. I frankly do not believe the reports of the simultaneous stalling, the steaming of batteries, etc. These are common types of exaggeration, and, even if they did occur, have nothing to do with the object itself.

My personal opinion is contained in my book, "Flying Saucers," published by the Harvard University press. I do not know your Dr. Williamson "noted authority on the subject of UFO," but I think he is an absolute nut if he adheres to the opinion that our solar system is headed for a collision with an embryonic sun.

Sincerely yours,

Donald H. Menze

Director

DHM/em

6-15-7 -

an old letter I stimbled upon. You may be interested to was quite young when I wrote to mensel. He seemed to be in the papers a lot in those days. It I wrote to him. Williamson comes on a lecture tour through ohio (Claimed he went moide a "Laurent").

ROBERT LAKE
2260 RALEO AVE ROWLAND HTS, CA 91748

ROBERT G LAKE 2260 RALEO AVE ROWLAND HTS,CA 91748





WISSIAM L. MOORE 4219 W. OLIVE - SUITE 247 BURBANK, CA. 91505 Dr. Leugene Epstein Astronomer 1/4/89 Sh. (h-m.) Serospace Corp. (Rador Ardmmy) 213-336- F232 (W) 275-1132 (h) Grad Student - Harvad 56-62 As trumy. Menul one of his propessors. active (1.) M. Conge Burdy uns at me time Dean of Art School which included ashiming. This is why Dean man". (2) Jack kennely was on sommittee at thomas while a Snator. - Astrony committee. This is why "Dear Jek". (3) Bala-num Sahllike camers ker by. James Bakes Who can part of Harrand system. Mensel involved in This.

2118 Patrix Ave. LA. 90025 GILE Sor Type STF.

RALPH A. STEWART 1904-1926

JOHN L. HALL
STUART C. RAND
CHARLES G. FENGRA
HARVEY E. BUNDY
CLAUDE R. BRANCH
JAMES GARFIELD
CHARLES P. CURTIS
RICHARD C. CURTIS
RICHARD C. CURTIS
RICHARD F. CURTIS
RICHARD F. CURTIS
ROBERT PRICTOR
RICHARD MART
SINON P. TOWNSEND
BROOKS FOUTER
SANUEL I. CWITS
BALLEY ALDRICH
FRANKLIN DENTER
JOHN M. HALL
CHARLES E. STOCKTON
RATMOND W. ELLIS
JOHN DANE-JR
W. ARTISCS DUPPEL JR.
FRANKLIN, R. JOHNSON

CHOATE, HALL & STEWART

30 STATE STREET

TELEPHONE CAPITOL 7-5020

BOSTON 9, MASS.

January 13, 1951

Dr. Vannevar Bush Carnegie Institution of Washington 1530 P Street, N.W. Washington 5, D. C.

Dear Dr. Bush:

I am happy to inform you that the Air Force Central Loyalty-Security Board has under date of January 11, 1951 advised Dr. Donald H. Menzel and myself of Dr. Menzel's complete clearance with respect to the loyalty and security charges brought against him by the U. S. Air Force. The letter of the Executive Secretary of the Board advising of this determination contains the following paragraph:

"I am pleased to inform you that the Board determined that, on all the evidence, reasonable grounds do not exist for the belief that you are disloyal to the Government of the United States and that reasonable grounds do not exist for the belief that your immediate removal would be warranted by the demands of national security. This decision has been approved by the Assistant Secretary of the Air Force (Management)."

I know that you will be hearing directly from Donald Menzel, but I am, in accordance with my commitment to you, advising you immediately of this result because of your great interest in the matter. In doing so, I want to express personally my very sincere appreciation of the all-out help which you provided in the presentation of his case.

Sincerely yours,

Latert nactor



NATIONAL SECURITY AGENCY CENTRAL SECURITY SERVICE

FORT GEORGE G. MEADE, MARYLAND 20755-6000



Serial: J9093

23 FEB 1988

Brian Parks 19615 Mildred Avenue Torrance, CA 90503

Dear Mr. Parks:

This is in response to your Freedom of Information Act (FOIA) request of 9 January 1988 to the National Personnel Records Center (NPRC) for the personnel records of Dr. Donald H. Menzel. The NPRC did locate some records and has referred them to this Agency for review and release. In compliance with the consent requirements of the Privacy Act (PA), records on one individual may not be released to another without the consent of the indvidual to whom the records pertain if that person is living. You indicate in your letter, however, that Dr. Menzel died in 1976. Because the consent requirements of the PA do not pertain to deceased individuals, the records may be releasable to you under the provisions of the FOIA if you provide proof of death (e.g. death certificate or obituary). The processing of your request is being held in abeyance pending receipt of proof of Dr. Menzel's death.

As we notified you by letter of 16 December 1987 regarding your request to this Agency for Dr. Menzel's records, no records were located in our search for documents responsive to your request. Any records which would have been maintained by NSA apparently had been retired and forwarded to the NPRC.

Sincerely,

CAROL A. GARRETT Deputy Chief

Information Policy

ر ۱۰۰ و تاریخ باد دلیمان هر به به به به بازی به میزد کسید. با میزی و به همی در دید داد در در در در در دود دود د

Ligs henre left project in "47 k go de when hush hush project in one her shut it was.

MENZEL MYSTERY

By Walter H. Andrus

When the late Dr. Donald 1enzel's name appeared as a member f the Majestic-12 Group on the ontroversial MJ-12 documents, it was tot only revealing, but produced an inexpected contradiction to his pparent philosophy on flying saucers. The second paragraph of page 004 makes the following statement:

"Since it is virtually certain that hese craft do not originate in any country on earth, considerable speculation has centered around what their point of origin might be and how they get here. Mars was and remains a possibility, although some scientists, most notably Dr. Menzel, consider it more likely that we are dealing with beings from another solar system entirely."

If this statement can be attributed to an actual quotation and is the professional opinion of Dr. Donald H. Menzel with regard to UFOs, it is in direct contrast to the position he subsequently took in writing his books: Flying Saucers. (1953) Harvard University Press; The World of Flying Saucers (1963) co-authored with Mrs. Lyle G. Boyd; and The UFO Enigma (1977) co-authored with Dr. Ernest H. Taves.

One of the implications suggested by a radical departure from the "extraterrestrial hypothesis" to that of a scientific skeptic or "debunker" in his writings is that he had a job assigned to him as a member of the Majestic-12 Group. Was Dr. Menzel wearing "two hats" and playing dual roles in this intriguing mystery? Why was he so motivated to write three books "explaining away" the UFO phenomenon? These are questions that have become more difficult to answer since all twelve members of the MJ-12 committee are now deceased.

CONSISTENT?

We have been asking ourselves the



Harvard Astronomer Dr. Donald H. Menzel

big question — are the MJ-12 documents internally consistent, regarding known and possible activities of these twelve outstanding men of 40 years ago? Robert H. Bletchman has been speculating upon the author of the documents to help determine their authenticity. Since Admiral Roscoe H. Hillenkoetter's name heads the list and knowing his later affiliation with the National Investigations Committee on Aerial Phenomena (NICAP) as a member of the Board of Governors, Mr. Bletchman has been collecting unrelated memos written by Admiral Hillenkoetter in order to perform a language comparison analysis. He is seeking qualified people capable of executing a comparative analysis of these memos to study the language style of Admiral Hillenkoetter.

Like many of his fellow researchers, the authenticity of the MJ-12 papers piqued the agnostic philosophy of James W. Moseley, editor of the non-scheduled newsletter, Saucer Smear. Of the twelve men, the most intriguing to Jim was Dr. Donald H. Menzel, an astronomer and astrophysicist, and former Director of the Harvard College Observatory. Dr. Menzel was, ufologically speaking, the Philip Klass of his day. Since all 12 members are deceased, Mr. Moseley noted that Dr. Menzel's latest book, The UFO Enigma was co-authored with Dr. Ernest H. Taves, a wealthy retired psychiatrist, and an active member of CSICOP.

James Moseley mailed copies of the MJ-12 documents to Dr. Taves with a letter requesting his opinion on the MJ-12 papers and the position of Dr. Menzel with regard to his possible dual role as a member of the MJ-12 group. Dr. Taves worked very closely with Menzel and still is close friends with Menzel's widow and his private secretary, with whom he consulted upon receipt of the MJ-12 material. Mr. Moseley has shared the contents of his letter from Dr. Taves responding to his questions (slightly abbreviated because of space limitations). Dr. Ernest H. Taves

TAVES LETTER

"I am informed that at the recent MUFON Conference Stanton Friedman contributed a paper entitled "The Double Life of Donald H. Menzel." This was preceded by widespread distribution, by the "Moore-Shandera-Friedman Research Project into U.S. Government UFO Policy" (hereafter MSF), of "New UFO Documents." It has been incumbent upon me to respond.

"First, with respect to the alleged Top Secret document, MSF states they cannot endorse the authenticity of the document. I state that I can, in my opinion, endorse the fraudulence of the document. MSF asks, "Hoax or proof of alien visitation?" I respond, "Hoax." As for the document itself: The version that I have seen (apparently a number of versions exist, differing in which text has been blacked out) clearly has not been officially declassified. If the document is genuine, and has not been declassified, one wonders whether MSF might not be in trouble with the FBI, but that is no concern of mine....

"As for the comments and questions (by Moore) with respect to Donald Menzel, none of them have any bearing upon his alleged membership in the "Majestic 12" group. MSF has apparently examined Menzel's correspondence and his autobiography, both of which are to be found in the Harvard Archives in Cambridge, and has used this information in aid of making a case suggesting Menzel's participation in a government coverup of a crash-landed UFO.

In this overreaching attempt MSF states, for example, that Menzel wrote to John F. Kennedy about such matters. Of course Professor Menzel wrote to John F. Kennedy about such matters... He and Kennedy had been friends for a long time, and Menzel foresaw that when Kennedy became president, he might wish to consult him about scientific matters. Menzel wanted Kennedy to know about his history in sensitive areas. And Kennedy did, indeed, consult Menzel on a number of scientific matters, seeking his advice. It was certainly no secret to

the Harvard community that Menzel had done much classified work for the government over a period of decades. The other points MSF raises are similarly noncontributory to "Majestic 12."

"I shall try now to add some information about Menzel that does relate to his alleged participation in a UFO coverup. Donald Menzel, during the latter years of his life, was my closest friend and associate, and I was co-author with him on his last UFO book, The UFO Enigma. During the last year of his life we spent many, many hours working on the book, and during the course of these discussions we explored, together; any number of related fields including the writing of science fiction (a field in which we had both published), the exploration of space, the probability of the existence of extraterrestrial intelligence, and so on. I can surely say that — with respect to Donald's thinking about such matters — I knew his mind and thinking more intimately than anyone else could have. In addition I knew what kind of a man he was. And I state categorically that he would have repudiated with contempt any suggestion that he participated in the coverup proposed in the alleged secret document.

"If an alien spaceship had crashed, if bodies of aliens had been recovered, Donald would certainly have been one of the first to be called to participate in an investigation. He would have welcomed this with the greatest enthusiasm. If national security were involved - which some might have thought to be the case for several months or a year or so — Donald would have gone along with that. But as it became clear — as indeed it has, over the years — that if this incident had happened it had no bearing upon national security, he would have been unable to continue to participate in a misguided and unnecessary cover-up. His interests lay in the discovery and propagation of scientific knowledge.

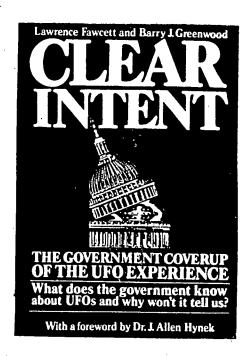
"Above all, he would have been utterly incapable of the intellectual dishonesty of writing books debunking UFOs while knowing full well that an alien spacecraft bearing alien occupants had crashed in New Mexico. The insinuations in the MSF

documents are a profound disservice to the memory of Donald Menzel." (End of Taves statement.)

Jim Moseley must be commended for taking the initiative of exploring the relationship of Dr. Donald Menzel to the alleged MJ-12 Group and the apparent discrepancy between the document statement and Dr. Menzel's books. Even though Dr. Taves is a member of the Committee for the Scientific Investigation of Claims of the Paranormal (CSICOP), known for their extreme debunking tactics, his personal evaluation of Dr. Menzel is valuable in the quest for answers to the authenticity of the MJ-12 papers. Dr. Taves' response letter indicates that he may have discussed this matter with Philip Klass when he said "one wonders whether MSF might not be in trouble with the FBI, but that is no concern of mine...'

The MUFON UFO Journal will continue to publish pertinent information both pro and con on the credibility of the MJ-12 documents, until there is no longer a "smoking gun" involved. It is imperative that the facts are disclosed to the UFO community, the news media, and the public.

(See over for the National Archives' response to requests for MJ-12 documents.)



Columbia Point Boston, Massachusetts 02125

 $x \sim x$.

Telephone: (617) 929-4582 929-4500

August 11, 1987

Mr. Brian Parks 19615 Mildred Avenue Torrance, CA 90503

Dear Mr. Parks:

Enclosed are copies of some correspondence between President Kennedy and Dr. Donald Menzel. These documents are from the President's Office Files:General Correspondence, Box 11. Additional correspondence (approximately 10 pages) mainly holiday greetings can be found in the White House Name Files, Box 1856. Copies of these documents may be ordered at a cost of \$.35 per page. If you would like to order copies, please let me know and we will give you an exact page count.

We have not been able to locate anything on Majestic Twelve or Project Aquarius. If you could furnish us with additional information on these operations, such as the nature and dates of the activities, we will be happy to look further.

If you need additional information concerning the Library's holdings, please let me know.

Sincerely,

Suzanne K. Forbes

Archivist, Foreign Policy Materials

Enclosures

STANTON T. FRIEDMAN NUCLEAR PHYSICIST LECTURER

79 PEMBROKE CRESCENT
FREDERICTON, NEW BRUNSWICK E3B 2V1
CANADA

(506) 457 - 0232

Note to File: January 2, 1986

Re: Menzel, Bush, Loyalty Hearings etc

Because the HQ USAF FOI person, Anne Turner wrote me saying she had nothing on the Menzel Loyalty Hearings, I called the law firm that apparently had defended Menzel and sent the notification of Menzel's being cleared immediately to Van Bush. Choate, Hall, and Stewart still has the same phone number as in 1951 617-227-5020 and is still on State Street in Boston. I spoke with a Ms. Re Fisher who is in charge of their records. The firm dates back to before the beginning of the **26**th century and is indeed prestigious.

She was interested in my request for further information partly because just that day she had heard they were reopening the question of how Glenn Miller had died back during WW 2! All she could find in a hurry was a couple of file cards indicating that the hearings had been held on May 24,25,26,27,29,31 and June 1-5, 1950 and that a transcript of the proceedings had been sent to Menzel in 1967. (Listed also in Menzel files).

I pointed out some of the mysteries I would like to solve and how important Bush was. Questions requiring answers include:

- 1. Who brought what charges against Menzel?
- 2. Why did Menzel apparently have a security clearance with the USAF when he had been in Naval Intelligence and was an astronomer?
- 3. What made things so important that Bush would be so concerned and testify?
- 4. Who else testified for and against him?
- 5. Why was there nothing in the NY Times re the hearings in 1950 or 1951?
- 6. Who paid what must have been a very big legal bill?
- 7. What brought Bush to Harvard on January 15, 1951, according to NYT, and right after getting the letter from Choate Hall and Stewart?

I also have noticed in reviewing my 6 pages of notes from the Truman Library in Nov.1982 that in January 1948, President Truman wrote a number of letters to people thanking them for their efforts in conjunction with the Office of Scientific Research and Development during World War 2. OSRD wasn't officially dissolved until late December 1947, so that in the summer of 1947 it still technically existed Bush of course received such a letter. Another recipient was H.H. Bundy of Choate, Hall, and Stewart!!

One must further note the very close connection between Bush, James P. Conant of Harvard, Karl Compton of MIT, Hunsaker of MIT and a myriad of others from the Boston area. Certainly the connection between Bush, Menzel, Choate, Hall, and Stewart seems worth following up.

Mrs. Fischer was intrigued and said she would check around to see what she could find out the files would be in storage, if there are any. There are oldsters still with the firm.

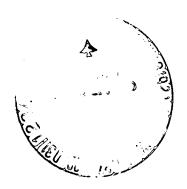
Science Consultant, . Lecturer. . Author . Broadcaster

HARVARD UNIVERSITY LIBRARY

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UNIVERSITY ARCHIVES

February 1, 1985



Mr. Stanton Friedman 79 Pembroke Crescent Fredericton, New Brunswick Canada E3B2V1

Dear Mr. Friedman:

Thank you for your call on January 31. I have enclosed photocopies from our shelflist denoting our holdings on Professor Donald Menzel, as you requested. Please note that the "UAV" material is restricted for fifty years; written permission is required to view and/or photocopy. To request permission, please contact:

Mr. Robert Shenton Secretary to the Corporation 17 Quincy Street Cambridge, MA. 02138

Please do not hesitate to inquire again.

Sincerely,

Charles Schille

Curatorial Assistant

Harvard University Archives

4567.12

Menzel, Donalld Howard (cont'd)

Papers relating to former students under consideration 1 4567.10 for jobs fin "Cryptanalysis." Confidential.
(Mar. 21, 1944 - D.W. Bailey)

Navy Correspondence <u>re</u> cryptanalysis (especially 1 4567.11 teaching of course on cryptanalysis). 1941-1943.

(Nay 1973 - D.H. Menzel)

U.S. Navy - correspondence, forms and questionnaires, orders, printed and manuscript reports, and other papers relating to Prof. Menzel's naval commission and scientific work during and after World War II. Prof. Menzel's association with some reports is not apparent.

1942-1955.

Also, this series includes several apparently

Also, this series includes several apparently unrelated folders, as follows: Notes on German Astronomy During and After the War; Report on conference with Boeing July 1958; Correspondence and report on Air Force study 1964.

(Acs. no. \$119 - May 26, 1977)

Union Ralio-Scientifique Internationale [International 1 4567.13. Scientific Radio Union] - Correspondence and other papeers.
1946-1953 (especially 1950).
(Acs. no. 7542 or 7549)

Prentice-Hall (Publishers) - Correspondence and other 3 4567.14

papers related to editorial work done for PrenticeHall by Prof. Menzel, including book on 'Fundamental
Formulas of Physics'.
1947-E954.
(Acs. no. 7542 or 7549)

International Astronomical Union 1 4567.15

Correspondence, memoranda, reports (printed,
processed and drafts), and notes and
outlines, re solar eclipses.
1949-1955.
(Nay 1973 - D.H. Menzel)

Menzel, Donald Howard (cont'd)

International Astronomical Union and Lunar Nomenclature - 4 4567.15.2 Correspondence, reports, lists of names, photographs and maps. 1971-1976.

Also see HUG 4567.5.6. (Acs. 8119 - May 26, 1977)

Smith socian Tables - Correspondence and related papers 1 4567.16 regarding revision of astronomical part of Smith sonian Physical Tables. 1949-1950.

(Acs. no. 7542 or 7549)

'Our Mr. Sun' [television film] - Correspondence, 1 4567.17 processed copy of script, brochures. Professor Menzel acted as an advisor to this production. 1952-1963.

(Acs. 8119 - May 26, 1977)

Century 21 Exposition [Seattle] - Correspondence. 1 4567.18 1958-1962. (Acs. no. 7542 or 7549)

Air Force Contract: Research Study on Dynamics of the 1 4567.19
Solar Atmosphere - Correspondence, proposals, contracts,
reports.
(1969) 1971-1977.
(Acs. no. 8119 - May 26, 1977)

Menzel, Donald Howard (Astronomy).

4567.xx

Note: See <u>UA V 630.37.x</u> for Prof. Menzel's papers as director of the <u>Harvard College Observatory</u>; those files include much of his personal correspondence and other papers for the years 1952-1966.

Also see UA V 631.10.x for papers relating to the High Altitude Observatory 1946-1951; and UA V 169.12.x for correspondence and other records of Prof. Menzel as chairman of the Department of Astronomy 1946-1949.

Papers relating to the Flying Saucers have been Jepo-sited with the American Philosophical Society.

Autoliography of D.H. Menzel - Unpublished (photocopy 1 4567.3 of type script). Table of contents datedSept. 1974.

551 pp. RESTRICTED

(ses. no. 8119 -- May 26, 1977)

Comeral Correspondence, professional and personal 1932-1944.
(Jan. 1963 - D.H. Menzel)

9 4567.5

General Courrespondence. 1945-1950.
(Nay 1973 - D.H. Menzel)

11 4567.5.2

General Courespondence, 1951. (Acs. no. 7542 or 7549, and 8119) 3 4567.5.3

4567.5.6

General Correspondence. 1967-1968, 1969 1970-1976.
Note: Correspondence for 1969 not received.

For personal papers, and records as director of the Harvard College Observatory, 1952-1966, see UA V 630.37.

(Ars. nos. 7542 or 7541, and 8119). (9734).

4567.25

1 4567.35

Menzel. Donald Howard (cont'd)

June 30. 1973 Eclipse (Mauritania) - Correspondence,
memos, reports and printed matter, notes and
calculations, lists of participants and
eclipment, and other papers. Includes
correspondence and other documents relating
to Pmf. Menzel's arrangements with Educational
Expeditions International.
(Acs. 8115 - May 26, 1977)

Patents - correspondence and other papers (Acs.9200)
Miscellimeous papers - includes correspondence,
reports, photographs, engineering drawings, and
other papers relating to personal and Observatory
business. Among the topics are building and
other needs of the Harvard College Observatory,
the observatory in South Africa, staff salaries,
lunar Nomemclature Committee, solar eclipse of
1973 and other topics.
1961-1975.

(Acs. no. 8352 - Mrs. D.H. Menzel)

Creative writtings (poetry and prose), and drawings by D.E. Memzel. Processed materials.

(April 1972 - D.H. Menzel)

Travels - acmounts of expenditures and receipts 1 4567.33 relating to various trips on University.

professional and consulting business. Four ledgers: 1948-1954; 1954-1960, 1961-1972; 1973-1976.

D.H. Merzel hearing before U.S. Air Force Cambridge Research Laboratories Loyalty-Security Hearing Foart, May-June 1950 - Review by D.H. Menzel of the history of his loyalty hearings (photocopy of trescript); Transcript of the hearings (carron copy); Statements by various persons (carron copies).

Note: Some of Prof. Menzel's papers relating to the proceedings regarding his loss of security clearance apparently are in the University of Denver.

(Acs. 7781 - Dec. 19, 1975)

4567.45.2

Menzel Donald Howard (cont'd)

Miscellaneous pamers - includes memos, various processed 4567.45 items, photographs, etc. relating to research and other professional activities of D.H. Menzel, as well as some unidentified materials. (This file was created in the Archives for items and folders not appearing to relate to other files.)

Miscellaneous papers - Correspondence and other papers relating to Harvard and to personal (professional) matters, including: index of DHM's slides (Dec. 1942); film script 'Journey to the Stars' (1961); Dover publications (1969-1971); several publication projects of Prof. Menzel's; trip reports on South America 1962 and 1964; and other matters. Also includes several letters dated after Prof. Menzel's death, including report by J.M. Pasachoff on eclipse expeditions and correspondence with M. Harvey Germsback.

This file was created in the Archives by bringfing together items which did not mpear to be parts of larger files.

1942 1955-1977.

(Acs. nr. 8119 and 8220)

travel note books, Miscellaneous papers - Includes correspondence, reports, and other pamers relating to personal and professional

4567.46 matters,c1934-77. File created in Archives. (Acs. 2200) Associated Iniversities for Research in Astronomy (AURA):

4567.50.2 Reports of K.H. Peak, 1962-1965.

Policy manuals of K.H. Peak. 1961-1964. 4567.50.4

Reports of Cerro Toldo, 1962-1965. 4567.50.6

Financial reports of AURA. 4567.50.8

1 4567.50.10 Blue prints and organization charts of various AURA projects.

Menzel, Domald Howard (cont'd)

Scientific Writings by Donald H. Menzel, and by other persons. Chiefly processed copies; no information on authorship is given for a number of items.

Among time more substantial items are the following:

2 4567.72.8

4567.86

- (1) Internal Constitution of Stars, by P.L. Bhatnagar, D.H. Menzel, H.K. Sen. 1952. 340p
- (1) Matrices for Calculation of Birefringent Filters, by D.H. Menzel and H.K. Sen. 1953. 91pp.
- (F) Theory of Atomic and Molecular Spectra; no author, no date; includes processed and typescript copies. 140 pp.
- (4) Gaseous Nebulae; no author, no date. 109pp.
- (5) Untitled first chapter on Radiation and Radiative Equilibrium; no author, no date. 221pp. It addition to other scientific writings, also includes several administrative memos.

 (5) Untitled first chapter on Radiation and Radiation and Radiation and Radiation and Radiative Equilibrium; no author, no date. 221pp.

 It addition to other scientific writings, also includes several administrative memos.

South American tour - Lectures and miscellaneous 1 4567.74 papers, 1974 (Acs.#8748)

Biography and Bibliography - Vita and other biographical 1 4567.80 summaries; Bibliography of writings by Prof. Menzel; Programs and other miscellaneous printed items. (Acs. no. 8119 - May 26, 1977)

Scrapbook - primarily clippings re Menzel and Astronomy 1 4567.810F

Photographs - personal photographs, chiefly of 1 4567.85 D.E. Memzel, alone and with other persons and groups.

(2cs. mo. 8119 - May 26, 1977) (Aus no. 8515)

Photographs - Scradbook of photos beken at the Symposium on Space Research, Buenos Aire; Argentina, 1960 (1856 # 8515) Writings by D.H. Menzel - manuscript and processed.

1 4567.70

Manuscripts of writings by D.H. Menzel - Chiefly popular 1 4567.70.2 writings, including radio script entitled 'Space, Time and Rælativity.'

Undated [apparently date chiefly from Prof. Menzel's years at Lick Observatory 1926-1932].

Includes autobiographical letter, 1930.
(Acs. no. 7542 or 7549)

Writings by Conald H. Menzel - Manuscripts of professional 14 4567.70.4 and other writings, notes and scientific data, and related correspondence.

Includes manuscripts of articles, research reports, species, teaching-related material and other items, in the form of drafts, handwritten, typed, photo-and processed copies. Some items are by persons other than Prof. Menzel, including a few identifiable as student papers.

The folders were grouped (by Prof. Menzel's office) in the following categories: [General - no category title]; Atoms; Mathematics; Molecular theory; Mmon; Nebulae; Page; Planets; Radiation; Stars; Sum; Elements; Instruments; Statistics; Miscellaneous; UFOs; [Addendum - folders not on any of the lists prepared by Prof. Menzel's office]. (Folder list, prepared by Prof. Menzel's office, is it first box.)

Note: This file probably can be weeded to some extent in the future, when a more complete bibliography of Prof. Menzel's published works is available. Manuscripts of works known to have been published were removed and discarded by the Archives.

(Acs. no. 3128 - June 7, 1977)

REE ENDING AID FILE

Writings by DHM - Includes manuscripts, correspondence and other papers relating to The UFO Enigma, Black Holes Cannot Exist, and Astrology and the Sky Above.

(Acs. 19200 and 8748)

2 4567.70.5

Menzel Donald Howard (cont'd)

Writings by Donald H. Menzel ("Manuscripts Current") - 2 4567.70.6 Manuscripts of professional and other writings, outlines, notes, and related correspondence. (Folder raist in first box) (See note, HUG 4567.70.4) (Acs. no. 8128 - June 7, 1977)

WELL WASALAA

4567.70.7

1 4567.70.8

4567.71

4567.71.2

4567.72,3

4567.72.5

£ 4567.72

SEE FROING ALD FILE

Writings by Donald H. Menzel - Manuscripts (including drafts), butlines, notes, and related correspondence. Italides two folders relating to work of James J. Taker.

(Acs. no. 8128 - June 7, 1977)

Writings by Donald H. Menzel - Manuscripts, drafts, and related correspondence for items left unpublished or uncompleted at the time of Professor Menzel's death.

Entitled " The Forces of Nature" (Acs # 8639 - May 3, 197 Writings by Donald H. Menzel - Manuscripts of popular articles, science fiction stories, student themes (in public school and college English classes), professional writings on scientific subjects. Inclides mopy of Prof. Menzel's 1921 Masters thesis. Also 1925 contract between D.H. Menzel and Winfiæld W. Salisbury regarding transmission of mictures by wire or radio.

Most items not dated; dated items are for 1912, 1925s, 1950s and 1960s.

(Acs. no. \$128 - June 7, 1977)

Writing by Donald H. Menzel - Includes typescripts of racio shorts, William and correspondence with publishers. (Acs.#9200)

Writings by Donald H. Menzel - Reprints. pampilets, etc.

writings by Donald H. Menzel - Newspapers

Writings by Donald H. Menzel ! Research contracts-Scientific reports by D.H. Menzel. Includes research carried out under contract with Ceoptysical Corporation of America, U.S. Air Force, National Aeronautics and Space Administration, National Science Foundation, Mignal Comps Procurement Office. (Report list in first box). 1932-1976...

(Acs. no. 8128 - June 7, 1977)

FINDING AID FILE

(more)

Menzel, Bonalid Howard (cont/)

Personal correspondence, 1971, 1973-1977.

4567.6

In addition to earlier material, also contains items relating to the death of Prof. Menzel in Dec. 1976.

(Acs. no. B119 - May 26, 1977)

Letters of Londolence to His. Menzel on the Death of Prof. Hemsel Nes. 45515

4567.67.5

Important old correspondence with famous scientists. 1926-Sept. 1932.

4567.7

Also includes letter from Werner Baade, 1959.

(Acs. no. 5119 - May 26, 1977)

'Old Correspondence' - miscellaneous professional and persinal.

4567.7.2 1

Also includes other miscellaneous papers, including mamuscriptus of writings by Prof. Menzel, patent applications (not DHM), and other papers.

ca. 1936-13974.

(Acs. no. 5119 - May 26, 1977)

Miscellmeous correspondence and other papers. Ourrespondence chiefly personal; also includes carbins of skits by Observatory staff (one item date: 1943).

4567.7.4

1931, 1949, 1963-1975.

(Acs. no. 8128 - June 7, 1977)

4567.8 John F. Kennedy Correspondence - related especially to the Overseers' Committee to Visit the Observatory. Also includes letters and other documents relating to other scientific and political concerns. Some letters are addressed on firstname basis; also includes correspondence with various persons associated with Mr. Kennedy. 1959-1963. (Acs. no. 8119 - May 26, 1977)

Notes: DRAFTS - Dictated by S.T. Friedman

Monday, April 28, 1986, Heward Archives

Letter to Senator John F. Kennedy, December 8, 1960, From: Donald Menzel

Dear Jack:

Several paragraphs -- clearly, they knew each other quite well.

"Since my memorandum concerning the National Security Agency may have become misplaced during the campaign, let me repeat that I have been a consultant to this agency and its predecessor for thirty years. I served in it actively during World War II as a commander in the Navy. I am one of the few people who has had continued service contact with its varied activities, and I repeat that I have from time to time actively served in connection with the National Bureau of Standards, both in its Washington and Boulder headquarters".

File: HUG4567.8, Folder No. 2, Kennedy Correspondence

Letter to: Jack Kennedy, From: Donald Menzel

December 27, 1960

"May I suggest one word of caution in strictest confidence. Many of the scientists have some concerns of the strong influence exerted by Dr. Bronk in the Space area. As President of the National Academy of Sciences, he is a powerful man. Somehow or other he manages to get on every committee of importance. I have served on a number of these with him and have not been impressed either with breath of vision or his depth. He'll undoubtedly urge you to put a great of power in his hands. I simply urge caution".

Letter to: J.F. Kennedy, From Donald Menzel, November 5, 1960

Recommending People for Various Jobs

"But I should want to investigate very carefully some of the top level permanent posts in the Department of Defence and in NASA. Sensitive areas of NSA and CIA deserve special treatment, as I indicated in an earlier memorandum. Information on these agencies should be helpful to you".

Earlier Letter, November 3, 1960, Confidential

"I have been associated since 1930 with a small organization that has now grown to the great National Security Agency. I served with them as a Naval Officer during World War II. I have been a consultant to that activity with Top Secret clearance and have also had some association with the CIA. Obviously in an unclassified letter I cannot go further into detail, but I wish to register that I have certain facts in my possession concerning actions by Eisenhower and his subordinates that have had a very adverse effect in these very supersensitive areas. Matters are so bad that I wrote a Top Secret report which eventually reached Eisenhower and had some beneficial effect, but reaction was only temporary. This report can be made available to you and would serve to educate you on the shortcomings and successes in this area. Because of my length of

service, I probably know more about what has gone on in this agency over the years than almost anyone within it. I also know the people, many no longer associated with the agency—they can be relied on to contribute.

Sincerely yours Donald H. Menzel Director

DHM/db

Professor A. Cox Professor A.J. Chayes

Letter From: Menzel, To: Senator Kennedy, August 13, 1960, Folder No. 7.

different quote

"On an entirely different basis, I am sending you a copy of a letter sent to me by Oswald Jacoby of Dallas, Texas. Jacoby, as you may know, is a well known Bridge expert. He and I served in the Navy together in what is now the National Security Agency; been associated with this activity for almost 30 years; probably have the longest continuous record of association of any person in the country. I still keep my close association with them. Properly cleared to one another, I should be able to help in this sensitive area.

Correspondence between Menzel and Lloyd Berkner, March, 1949, Re: Technical Problems

Obviously knew each other.

May, 1948

Correspondence Between Dr. Merlel Tuve, Department of Terrestrial Magnetism Carnegie Institute, Washington, Sperkner Menzel knew them both. Notified Menzel of his being elected to the National Academy of Sciences. Both Berkner and Menzel were members of the International Council of Scientific Unions Mixed Commission on the Ionosphere in 1948. Apparently an old friend of Menzel's was Rear Admiral E.E. Stone, Director of Naval Communications in 1948 anyway. There is one big fat box No. HUG4567.35 Hearings before the US Air force Cambridge Research Laboratory Loyalty Security Hearing Board in 1950. The first folder is a review by Menzel of the history of the Loyalty Hearings. In the first paragraph, first page: "April 13, 1950 marked the beginning of the unhappiest most traumatic experience of my life. Although the War had been over for more than 4 years, I'd continued as Commanding Officer of Communications Unit 1-1 of the US Naval Reserve in Boston. I was a consultant with TOP SECRET ULTRA clearance to the National Security Agency which had replaced the Naval Communication Unit I had been associated with during the War. The National Bureau of Standards had requested my services as consultant in the field of radio propagation at that time. Was on the Visiting Committee to that Bureau, reporting directly to the Secretary of Commerce. US Air Force experienced various problems associated with radio communications, rockets used for Space research, etc. Had specifically requested my services as a consultant. The duties were not onerous, but interesting. Had designed several experiments to be sent up in rockets. One of these had plans to detect X-rays which then concluded

from theoretical studies might be coming to the earth." It goes on to talk about the 2 airmen standing at the door with an 8-page document. On page 14: "At no time during this period has the Navy even questioned my clearance in the category TOP SECRET ULTRA whereas the Air Force work I had been performing required only Secret clearance". Henry Norris Russell, who was Menzel's Professor of Astronomy at Princeton, made the following statement about Shapley and others on the while the organizations that Menzel was accused of belonging to. "My opinion is completely favourable. I have been acquainted with many people who have been engaged with Classified material and no one has been more scrupulously careful never to mention any Classified information, and, in effect, not even to state positively that he has access to Classified information. On one occasion, Dr. Menzel said to me "I cannot say anything of this matter". Although I am an old friend, he has told me nothing of it and has been very careful not to communicate even the nature of the work on which he was engaged or to divulge any information which verged upon Classified. In his conversations with me, he has exercised exceptional caution." That was on page 14 of Menzel's comments.

The Late Dr. Vannevar Bush

During World War II, Bush was Director of OSRD, which sponsored many research projects for defence purposes. Under the sponsorship of OSRD I had undertaken under the special anti-aircraft gun sight. Then on Dr. Bush previously, when he was in MIT during which period I consulted him on certain development related to computing machines for special purposes. .Vannevar Bush stated that I had occasion to discuss with him various highly Classified matters on a number of topics, particularly those related to the propagation of radio waves. "All of his responsibilities with which I am familiar in the course of his Wartime services in the United States Navy in the OSRD. Dr. Menzel carried out faithfully, loyally, discreetly, and with a high degree of technical and scientific competence. I was throughout my pre-War and Wartime relations with him entirely convinced of his complete loyalty to our country; his entire trustworthiness with respect to matters of the highest classification; and his discretion and conscentiousness in all matters involving security. Since Dr. Menzel's return in the latter part of 1945, personal relations with him have included meetings and conversations on technical subjects. Based on my knowledge and judgment of his character, on my Wartime experience, I am as thoroughly convinced today of his complete loyalty, his entire trustworthiness and his discretion, current consciousness and security matters as I was throughout the War".

Page 18

"The typed transcripts of the hearings rented 1384 double-spaced pages, Exclusive of some 200 pages of statements plus dozens of exhibits that my attorney and I produced as evidence.

Page 38

Paul Buck, who was the provost of Harvard University mentioned that Menzel represented the University on the Committee of Applied Mathematics which performed a very important Classified job during the War and now still does important research for the _____ Air Force. Menzel happens to be on that committee, and in discussion, with Paul's inprofessional judgment, is respected

He talks about his many experiences evaluating problems fom the Navy concerning anomalous propagation, clear air turbulents, and a variety of such things. He brings up the Washington UFO sighting and says on page 11 of that Chapter "Major General Samford, whom I knew very well from my Navy days, was by now in charge of the agency that had succeeded to the type of work I'd undertaken for Naval Communications, made an announcement supporting my evaluation. This has to do with the claim that bubbles of hot air trapped the radar beams. He said, some years later a detailed study was made by the US Weather Bureau, and completely agreed. But to this very day, the diehardufologists _____ cite the Washington "invasion" as proof of the existence of UFO's from outerspace. At the end of the War, just while Menzel was preparing to get out, he got involved in a large radio propagation program, and set it up for the government. Then Condon offered him the job of running this whole program (couple of million dollars worth of research). Condon was head of the National Bureau of Standards at the time. DHM turned that one down, but did settle for a special appointment as consultant to the newly formed Central Radio Propagation Laboratory, a title that he held for approximately 25 years thereafter. He was also offered work by his old friend Johnny Smyth, radio propagation expert at the Naval Electronics Lab in San Diego. He set up Smyth Associates and offered Menzel a post. He declined. His immediate superior Captain Howard Engstrom and a number of his colleagues in OP-20-GM including a William Norris, formed their own company, Engineering Research Associates in St. Paul, and offered him quite a job. He compromised on a consultantship. That company went on after 4 years to be acquired by Remington Rand, later became Sperry-Rand, and some of the guys withdrew from Sperry-Rand to form Controlled Data under Bill Norris. It is also stated that the USN Communications Annex, where he had served for 3 years, appointed him a civilian consultant--a post that he held for more than 20 years.

In Menzel's chapter on the National Bureau of Standards, he talks about a meeting after the fuss about the battery additive. He describes how Condon was pressured out and soforth and there was a meeting of the Visiting Committee of the NBS with Mervin Kelly, President of Bell Telephone Labs, Detlev Bronk, President of the National Academy of Sciences, and J.H. Van Vleck, Professor of Physics at Harvard--Van and I had been close friends for many years. I'd asked Mrs. Menzel about Bronk; she said she knew him well.

Page 26

He talks about the National Security Agency, which was devulged from my old Naval Communications group during World War II.

Page 28

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Chapter 27

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very much by his colleagues on that committee so that they pay attention to his ideas when he expresses them."

Page 47

"One of the judges in my trial, Mr. Ehraim Rabner later? became a very good friend of mine. He was one of a number of Scientists who broke away from Air Force Cambridge Research Laboratories to form their own company the Geophysics Corporation of America. Elsewhere I shall detail some of my association with this company for which I became Chief Scientist on a part-time basis."

Folder No. 1 - Testimony of 24 May 1915, Page 27

They just state that the statement of Vannevar Bush is Exhibit 1 read in its entirety by Mr. Proctor, but it's not in the folder. (It is in the last folder with the other testimonials.)

Statement - Page 103

Proctor asked Menzel "What agencies?" He said he had been working for, he says, for the National Bureau of Standards and for the Research and Development Board and he didn't finish that sentence.

Page 104

Quote from Menzel - "The work for the Research Development Board is in connection with a committee on navigation. I have received my appointment, but I have not been able to attend any of the committee meetings in that connection. My appointment came through around January/February 1950. And were you asked by the R and D Board to undertake that work? I was. I Proctor a letter from the RND Board dated December '49 signed by W.L. Webb, Chairman Panel on Air Navigation Committee on Navigation. I asked if he received that letter. I did.

April 29 - I am reviewing Menzel's Autobiography, after having received permission from his wife to, both read and copy what I felt like. On page 6 of chapter 17, there is a comment "I received an invitation to contribute a paper in honour of the 60th birthday of my old friend, Robert Oppenheimer?" This was on page 6 of chapter 17. On page 7, he talks about the difficulties in trying to learn Math from a pure Mathematician who had not the slightest interest whether the subject might be practical or not for astronomical or other scientific research. Boy, I can sure agree with him there—that was my problem in Chicago—He apparently had problems at Princeton.

He talks about his many experiences evaluating problems fom the Navy concerning anomalous propagation, clear air turbulents, and a variety of such things. He brings up the Washington UFO sighting and says on page 11 of that Chapter "Major General Samford, whom I knew very well from my Navy days, was by now in charge of the agency that had succeeded to the type of work I'd undertaken for Naval Communications, made an announcement supporting my evaluation. This has to do with the claim that bubbles of hot air trapped the radar beams. He said, some years later a detailed study was made by the US Weather Bureau, and completely agreed. But to this very day, the cite the Washington "invasion" as proof of the existence diehardufologists of UFO's from outerspace. At the end of the War, just while Menzel was preparing to get out, he got involved in a large radio propagation program, and set it up for the government. Then Condon offered him the job of running this whole program (couple of million dollars worth of research). Condon was head of the National Bureau of Standards at the time. DHM turned that one down, but did settle for a special appointment as consultant to the newly formed Central Radio Propagation Laboratory, a title that he held for approximately 25 years thereafter. He was also offered work by his old friend Johnny Smyth, radio propagation expert at the Naval Electronics Lab in San Diego. He set up Smyth Associates and offered Menzel a post. He declined. His immediate superior Captain Howard Engstrom and a number of his colleagues in OP-20-GM including a William Norris, formed their own company, Engineering Research Associates in St. Paul, and offered him quite a job. He compromised on a consultantship. That company went on after 4 years to be acquired by Remington Rand, later became Sperry-Rand, and some of the guys withdrew from Sperry-Rand to form Controlled Data under Bill Norris. It is also stated that the USN Communications Annex, where he had served for 3 years, appointed him a civilian consultant-a post that he held for more than 20 years.

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replaced the Naval Communication unit I had been associated with during the War".

Menzel has a chapter on Extra-Curricular Activity (Chapter 30, it looks like), and mentions a lot of his comments--his work with, for example, the Geophysics Corporation; and then he says, that the stock options from them form a greater part of his current income than Harvard and Smythsonian pensions combined. He says, "In the interval since the War, I have performed services for these 40 different companies, some on a one-shot basis, and others, over an extended period of time. Those with whom I have had major contracts include the 3 large airframe industries (Boeing, MacDonell Douglas, and Lockheed). He said that Bob Gross, President of Lockheed, offered him the position of Chief Scientist with more than twice his Harvard salary. "I have also worked for some of the lessor companies such as Hughes, North America, Raymo Wooldridge and Martin Marietta. I did considerable work for Collins Radio. I also consulted briefly with Airborne Instruments Laboratory shortly after I retired from Harvard on July 1, 1971. He heard from Richard Moynihan with the Electronics Space Systems Corporation. Then he, in 1973, became a scientific director of that company, dealing with antennas mainly.

Page 23

Wrote, first of all, for the <u>San Francisco Chronicle</u>, later for the <u>New York Herald</u>, <u>Herald Tribune</u>, and also for the <u>Christian Science Monitor</u>.

There is a brief chapter on Velikovsky. Menzel repeats his review from Physics Today with its sarcasm about John Bunyan and his ox Babe; then talks about Bailey's work on the electrical charges on stars, planets; he does mention the correct predictions of radio waives from Jupiter and the high temperature of Venus. He won't credit Velikovsky,—simply because the reasoning was so bad. He doesn't bother to mention his own publication that Venus was a tropical paradise. There is a long discussion about Shapley, a whole chapter as a matter of fact. And, again on the whole, the approach of Menzel is to find fault with a lot of people. He says nice things about some people, but never seems to be able to admit his own errors, which is rather fascinating I find. He almost breaks his arm patting himself on the back at several places.

Page 2, Chapter 31, UFO's

He says, "I had an early exposure to some of the military aspects of the problem while on temporary of duty in Washington, D.C. with the USNR during the summer of 1949. Navy pilots, too, had become involved when I received a briefing on the problem. From time to time, during the next several years, I was given Classified information on the status of the military problem. I became convinced that the Air Force "experts" were completely off the track. He wrote this chapter while he was working with Taves on his final book. In his UFO chapter, Menzel quickly deals with a number of his famous cases: the Washington sighting; the argument with MacDonald about the one up in the Arctic; he very quickly dismisses the Waldo Harris case; accuses MacDonald of, not quite scientific dishonesty, but sort of sensationalism and selective choice of individuals. It goes on to the Chiles of Whitted case.

After discussing a couple of television Donnyrooks with John Fuller, etc., he says that between 1960 and '68 the Air Force increasingly used my services as a consultant in analyzing UFO reports. Most of the cases they sent me were ones that Hynek was unable to solve, those he listed as unknowns. I have provided reasonable solutions for the majority of such cases and the Air Force no longer lists them as unknowns. He mentions 2 of these cases: one near Cochrane, Wisconsin (April 3, '68), another one was Yellow Springs, Ohio (August 15, 1968).

At MIT library on April 30th.

A letter from Vannevar Bush to Lieutenant General Leslie R. Groves, Remington Rand, Stamford, Connecticut: an interesting crack about Condon:

Dear Leslie:

"I did not read Condon's article when it appeared, principally because I do not have very much confidence in his pronouncements and did not bother with it". A little bit later (talking about the policy about compartmentalization)—"there is quite a lot of this that ought to be made clear—the policy of the OSRD in the Manhattan District was the same, it was consistent, and it was carried out carefully. This was, in brief, to give any worker in this country, or among the allies we trusted, the full information that he needed to discharge his personal responsibilities, but not to give him added information on matters that he was not connected with merely as a matter of interest. This did not prevent bringing a man in as a consultant posting him fully. I early established this policy in OSRD with the President's full approval. It was also the policy of the Manhattan District. There was a good deal of objection on the part of scientists at times, but I still feel that the policy was sound, administered as it was with reasonable flexibility.

Note: Bush File

From: Walter T. Bonney, Box 247, Eastview, Route 8, Frederic, Maryland, 217013014735947

To: Bush

Saying that he worked as an assistant to John Victory '49-'58 and thereafter for 2 years directly for Keith Glennan when NASA was formed; and he was for 10 years (from 1960 to 1971) at Aerospace Corporation. And NASA asked him to do a definitive documented historical monograph encompassing the entire 43-year existence of NACA to be suitable for publication. He was in touch with Dr. Hunsaker (I wonder if WTB is alive), and he may know a great deal about the NACA stuff). Bush was NACA Chmn. prewar.

April 8, 1969

There was a note from a Rosemarie F. Sullivan, who was apparently Van Bush's secretary at that time.

Further notes about Menzel: I talked to a lot of different people through Joan Thompson. It is clear that there was a major dichotomy between the Smithsonian group and the Harvard group and most of the people working at Smithsonian had practically nothing to do with the Harvard group. There was also a major

difficulty with the fact that Smithsonian doesn't do Classified work; that many of the people at Harvard were sor of strongly against Classified work, and were peacenicks. There was, of course, the dispute between Menzel and Whipple on one side, versus Bok and Shapley on the other. With all the fuss in the 60's and all the anti-war sentiment, it is no wonder that Menzel had the good sense to be discreet about what he was doing; aside from any commitment to security, it just wouldn't have been good sense to advertise his very many activities apparently with regard to Classified work. I did talk to a Dr. Lilly (who was super, very open, much more engineering-oriented) which was Menzel's style as well. He indicated that, of course, many astronomers are anti-technology, anti-engineering, anti-industry, and Menzel was different in all those regards. Menzel was noted for trying to grab credit; very discreet, although Lilly, younger than Menzel of course, indicated that when he was working at the Naval Research Lab, Menzel showed up there all the time-this is post-war.

I talked to a woman secretary who had done a lot of historical looking unto Shapley because they had a big program (100th anniversary of Shapley's birth), and she was well aware of the Loyalty Hearings

617-948-5364

Mrs. Stanley P. Wwyatt POB 363 East Falmouth, MA 02536

May 4, 1986

Dear Mrs. Wyatt: (or Kay or Catherine or whatever you prefer)

It was a pleasure indeed to talk to you yesterday about Don Menzel and his important but little known contributions to the Nation's well being in the post WW2 era. I am certainly looking forward to having the opportunity to sit down with you in person. My CV is enclosed to give you some background along with a copy of a letter to Van Bush from the law firm that defended Don at the Loyalty hearings. The letter was in the Bush files at the Manuscript library of the Library of Congress. I have spent literally hundreds of hours there, at the National Archives, the Truman and Eisenhower Libraries, the Public Archives of Canada, the Simpson Hisocrical Library of the Air Force. This past week I spent 3 days at Harvard, mostly going through the Menzel file there after having reviewed some of what is in the Archives at the University of Denver (mostly related to the Loyalty Hearings) and talking to staff people. Two days were spent reviewing the material on James V. Forrestal at the Princeton Archives.

My concern is with the interaction between the small group of top scientists who all knew each other and who so quietly performed such great service. Of particular interest are the members of the MJ-12 whose existence has recently been declassified. A colleague and I have talked to more than 90 people connected with what happened near Roswell, New Mexico in July of 1947. Among the group besides Don were Van Bush, Lloyd Berkner, Detley Bronk, Nathan Twining, Hoyt Vandenberg, Sydney Souers, Roscoe Hillenkoetter, Jereme Hunsaker, Gordon Gray, General Montague, and Forrestal. I have some notions about what Don did for the group that I would very much like to talk to you about. I have great admiration for his discretion and his ability to provide disinformation. I certainly felt sympathy while reviewing the Loyalty Hearings Trancscippt. He didn't be tray his Top Secret Ultra clearance while they were focussing on his USAF Secret clearance.

I look forward to our meeting.

Most enthusiastically,

Stand Folledman (UNI) (Of course I didn't discuss MJ-12 with Florence or anybody at Harvard)

Bendix

(Affiliated with National Management Association)

Management Club of South Bend

The Bendix Corp.

Bendix Division

South Bend Indiana

Tel (219) 237-2100

tanton T. Friedman

110 Kings College Road

Fredericton, New Brunswick E3B 2E7

Canada

Dear Stan:

November 29, 1982

The Management Club members and myself want to thank you for a well presented program. I received comments from many members, all of them with the same reaction. The program was very informative and mind stimulating. Even the people I know who are against nuclear power learned from your program.

The Bendix Management Club Bo rd of Directors would certainly recommend you as a speaker at any NMA Chapter meeting.

Thanks again for a wonderful presentation on nuclear power.
Sincerely,

Other NMA Groups (All UFO talks)

Robert W. Beall Program Chairman

"Our members are still buzzing about your recent presentation! Thank you so much for sharing your thoughts with us on a subject as controversial as "flying saucers". I was extremely pleased with the news coverage. In fact your taped interview has been shown on our local T.V. stations numerous times. A well presented program, by an extremely knowledgeable person."

Youngstown Sheet & Tube Chapter, NMA, Youngstown, OHIO 1976

"The Clark Equipment CMD Management Club enjoyed your interesting and enlightening lecture as was evidenced by the excellent turnout of 188 members as well as the response shown in the question and answer period following the lecture."

1980 Clark Equipment, Construction Machinery Group, NMA Chapter, Benton Harbor, MICHIGAN

"I wish to express our appreciation for the fine lecture you gave. I believe the enthusiasm you generated was reflected in the large crowd you drew. In the days subsequent to your lecture I have had a chance to talk to many of the attendees. People were enlightened, challenged, and entertained. Thanks again for making our program a success."

1979

Magnavox Company, Management Club (NMA), Fort Wayne, INDIANA

"It was indeed a pleasure to have you as a speaker. Our membership was impressed with your scientific approach to the flying saucer phenomena, and many comments were received on the excellent quality of your presentation. Thanks again for making our meeting an overwhelming success!"

1980 Rockwell Hanford Chapter, NMA, Hanford, WASHINGTON

"Thanks again for your articulate and very interesting presentation. The subject drew more membership than we have experienced for many meetings. Approximately 440 were in attendance. Many stayed long after the meeting to listen to questions and answers which you did an excellent job of fielding." 1979 Lockheed Missiles Sysytems Div. Chapter, NMA, Sunnyvale, CALIFORNIA

"..excellent presentation!... considered meeting of the year." 1974 Vandenberg AFB,NMA,CALIFORNIA

"..illustrated lecture was throughly enjoyed by everyone." Lockheed Electron. 78NMA, Plainfield, NJ

"..attendance, Approx.500 certainly indicates interest..very well received."Lockheed NMA, Burbank,
1975 CALIFORNIA

STANTON T. FRIEDMAN NUCLEAR PHYSICIST - LECTURER

79 PEMBROKE CRESCENT FREDERICTON. NEW BRUNSWICK E3B 2V1 CANADA

2 Re Wyatt etc.

(506) 457-0232

I think K is caught on the one hand between the desire to talk about things she has been unable to talk about with someone like me who had clearances and understands secrecy and on the other hand between fear of releasing information that shouldn't be released. She strikes me as vulnerable on the one hand because her husband died in 1980 and scared she might hurt herself, or the Menzels or national security.

It is difficult. She made a comment that I probably knew more about her than she did during our first conversation. It was clear that I had been doing a great deal of digging. Yet she knew nothing about me. When she got my letter mentioning MJ-12 it must really have shocked her even though I never used the word UFO. I suspect her concerns about my not publishing which I obviously had were a red herring. She didn't dare tell Florence or Liz about MJ-12 especially since I said I hadn't. She sounds very sharp and will be very careful. I think she knows a lot or she wouldn't be so scared. She may think I am a spy or worse yet somebody checking on her to see if she will release data.

She is also afraid that I will publish wrong information about Menzel dredging up gossip about Harvard etc. Unfortunately she may also contact old military people. She has already talked to her attorney. She seemed more concerned about Navy stuff than gossip.....

Liz made a comment to Joan that Don's Navy service was a lot more than people thought and that he was very special. No clue that she knew the details. They all seemed to think Menzel was quite ill when he dictated the autobiog.

Jaon fortunately got the call from Liz who was calling Joan's boss, The DHMenzel Professor of Astrophysics Dr. David Layzer? whom I saw but did not meet. Joan had mentioned to Mrs. Menzel that Jaon was the secretary to the DHM prof. Hence the call. She played it very casual, didn't mention UFOs. Mentioned she was sending me Hynek article from NY Times.. comment was that Hynek only made his reputation (famous) from UFOs.. apparently downgrading...

I suspect she will be very worried about our meeting but will be thinking about past events. I also think she is being evasive about Mary G. Ballard.. maybe secretary to Menzel before her....

I have to be very careful

STANTON T. FRIEDMAN NUCLEAR PHYSICIST - LECTURER

79 PEMBROKE CRESCENT FREDERICTON. NEW BRUNSWICK E3B 2V1 CANADA

(506) 457-0232

Memo : to File

Conversation with Mrs. Wyatt , E. Falmouth, MA May 11, 1986

CW did get my letter and CV. Had a long pleasant conversation with Florence Menzel. Also talked to Menzel's daughter Elizabeth (Mrs.Bernard Davis, Harvard Medical School) he is). She is quite concerned about protecting her mother and was upset that I was allowed to see the Autobiography. May be contacting me. CW apparently did some checking, trying to figure out my year of birth, I told her. Doesn't know what has been declassified without checking with various people in the Navy etc. Casually mentioned MJ 12. I said I would bring along proof of declassification. Didn't think she could remember enough to make the trip worthwhile but if I wanted to spend the money she would indeed see moon May 20 around noon. Asked what I liked to eat and gave me directions. Fortunately I had a very good Cape Cod map which showed all the streets she mentioned.

She has a copy of the autobiography in a box in the attic somewhere. May not be able to find it. Casually mentioend that she had talked to her attorney about getting some kind of agreement from me about not using her comments without her approval. He suggested I might have a form that could be signed. After all you may not here from this guy at all. This was before my letter.

She got married in 1950 after helping Florence gather together goodies about the Loyalty Board and apparently left Cambridge for U. of Michigan shortly thereafter. Don called her in Michigan when the decision was reached. At that time Elizabeth apparently didn't know too much about what was going on at all but was just finishing high school and resentful about high legal costs which may have kept her from being able to live on college campus instead of at home. Other daughter in Texas (Susie??)

(Said she was thinking of writing me today)

CW recognized at least five of the names on my list of MJ-12. Apparently worked for others on a confidential basis... including DC McVittie at U. of Illinois-- was his asst. for 6 year years as head of Astronomical Society. Elizabeth didn't know about Don's classified work. CW in response to my asking who would have succeeded her as cleared assistant or typist said whe would have to check with that person first. I mentioned Doris Beaudoin, she said yes. Did not do classified work for him.

Travel instructions.. down Rte. 28, Left on Bricklin Rd to Rte 28 again. Turn left to 1st Traffic Light, Davisville Rd. Turn right. 1.5 miles on Macadam. Stop Sign, then dirt rd Davusville Extension, 515, Counting corner house, third House on the right. Very close to the water. Stop sign at Menauhant.

Called me back 2 hours later.. might have been drinking. She wondered if she ought to invite Doris B. down for when I would be there. I hesitated and indicated I thought not because I understood that Doris didn't have aclearance and only began in 1953 for DHM. Before that she worked as typist for Shapley.. went off to be a num-- came back.

Joan T. Had been somewhat besieged by calls from Elizabeth indicating Kay was upset by me.. maybe her mother had been too careless giving approval.. worried about gossip repeat.

NICAP SPECIAL BULLETIN

1536 CONN. AVE., WASHINGTON 6, D.C.



MAY 1960

NICAP EVIDENCE READY FOR CONGRESS

Documentary proof of the AF cover-up on UFOs has been prepared by NICAP for seven Congressional committees. Key points in this documentary evidence include:

1. Proof that the AF secretly ordered an airliner carrying passengers to leave its assigned course and chase a UFO.

2. An extract from an AF Intelligence Report describing mysterious UFO "explosions" near an AF transport over the Pacific, and the transport captain's opinion that the plane had been "shot at" by some unknown object. This report also cites unsolved disappearances of AF transports in the same area and states that the crewmen who saw the "ex-plosions" appeared to have linked this action with the previous disappearances.

3. A new public statement by Major Dewey Fournet, USAFR, who as an Intelligence officer was assigned to monitor the UFO Project "Blue Book" for AF HQ, Major Fournet, now a NICAP Board member, has just confirmed the existence of a document the AF has repeatedly

denied.

The Top Secret Estimate of the Situation drawn up in 1948. This hidden document was first publicly cited by Capt. E. J. Ruppelt, former head of the project. Ruppelt revealed that the secret official conclusion was that the UFOs were interplanetary spaceships. Numerous members of Congress, also members of the press and NICAP, have been flatly told by high AF officers that no such document ever existed. Major Fournet's new confirmation will probably have an important effect on Congressmen who were given the official denials.

4. The censored page of the Armstrong. Theater script on UFOs. This page contained a disclosure about the 1948 Top Secret conclusion and other hidden AF opinions about UFOs, first approved by the Armstrong Theater writer for broadcast by NICAP's director. This important section was stricken from the NICAP script at AF insistence, along with other

important evidence.

5. Hidden UFO sightings from confidential sources, including: An encounter with a giant flying-disc, by a Navy plane over the Atlantic; a close-up observation by a Navy commander who admitted the sighting had scared him; a sighting by a well-known scientist and some of his staff; an encounter with a rocket-shaped UFO by pilots of a Navy squadron, with subsequent orders by the Air Force to keep it secret.

6. Contradictory AF documents and letters which fully prove that the facts have been kept from the public.

Several of the preceding items, among them surprising proof of the secret airliner chase, the hidden cases and the Pacific mystery report, are included in the new book Flying Saucers: Top Secret by the Director of NICAP. This is a

FORMER CIA DIRECTOR SAYS UFOS UNDER INTELLIGENT CONTROL

NICAP Majority Conclude Objects Interplanetary

In his first public opinion on the nature of UFOs. Vice Adm. R. H. Hillenkoetter. former head of the Central Intelligence Agency, has stated that the "unknown objects are operating under intelligent control." Speaking as a NICAP Board member, Adm. Hillenkoetter said it was

high time the secrecy was ended.
"It is imperative," he said, "that we learn where the UFOs come from and what their purpose is." Commenting on official sighting reports in World War II and the years immediately afterward when he headed the CIA, he added: "I know that neither Russia nor this country had anything even approaching such high speeds and maneuvers."

Also for the first time, the majority opinion of the Board and Special Advisers has now been released:

The unknown devices reported by reliable observers are intelligently controlled machines from outer space.

Joining in this opinion were the follow-

ing:

Board members: Dr. Marcus Bach, Rev. Albert Baller, Mr. Frank Edwards, Col. R. B. Emerson, Rear Adm. H. B. Knowles, Prof. Charles A. Maney. Special Advisers: Norman Bean, chief of engineering, WTVJ, Miami; Albert M. Chop, former AF information official on UFOs: A. L. Cochran, electronics expert; Samuel Freeman, former AF major; Frank Halstead, for 25 years curator of Darling Observatory; Dr. Leslie Kaeburn, chief of bio-electronics, Univ. of Southern California; Prof. N. N. Kohanowkski, Univ. of N. Dakota; Capt. R. B. McLaughlin, Navy missile expert, and Capt. W. B. Nash, Pan American Airways.

detailed, behind-the-scenes story of the Committee's fight to end UFO censorship and determine the facts. Some of the basic incidents are known to members, though more details are given than was possible in condensed NICAP publications. In addition, there are several discoveries which were held for the documented report to Congress, including the officially approved script prepared for closed-circuit use at Lackland AFB, which fully admitted that UFOs are interplanetary devices.

(In the following months, the main topics of this book will be reported, in digest form, in the UFO Investigator, and if space permits also in NICAP bulletins, so that members can learn the essential facts without securing the book.)

(To date, we still do not have a majorit; vote on the question of purchasing the above-mentioned book through NICAP, at a discount. If a decision is reached before we go to press, a bulletin will be insperad on another ages 1

Menzel Admits He Did Not Get UFO Facts

Dr. Donald H. Menzel, harshest skeptic of UFO reports, has admitted that he failed to get all the factual evidence before debunking important sightings.

In a discussion with NICAP's director. on the Garroway program of May 16, the head of Harvard Observatory conceded that he did not have the detailed AF reports when he labeled many UFOs as mirages and illusions. He said he found the AF would have muzzled him if they gave him' the cases. Before this interview, Menzel had publicly scoffed at charges of AF censorship.

During the TV interview, it was also revealed that the chief AF consultant on UFOs, noted astronomer Dr. J. Allen Hynek, had labeled Menzel's UFO explanations as "not a serious treatise." Anyone looking for a serious study, stated Dr. Hynek, would be disappointed.

In 1958, a high AF official wrote Rep. Carl Vinson that Dave Garroway had agreed to help put the UFO story in "proper perspective," obviously implying aid in debunking the subject. But during a moment off camera, Garroway told Menzel that he was one of the "believers." In addition, one of Garroway's staff said they had no knowledge of any promise to help debunk UFOs. Rep. Vinson is being informed of this apparently false statement by the AF.

"Argosy" Exposes UFO Secrecy

This June issue of Argosy contains a documented expose of AF censorship, including photographed sections from AF Reg. 200-2 and JANAP 146. By-lined "as told to Harold Salkin" by NICAP's director, the article also includes new details of the AF censorship imposed on the Armstrong Theater staff during rehearsals for the January 1958 program 'UFO-Enigma of the Skies."

Because of the unfortunate U-2 "spy plane" publicity, a long-planned Washington press conference, to get these new UFO revelations into the newspapers, had to be canceled. If expected developments materialize, an important news story will probably go on the wires within a month. Meantime, all NICAP members are urged to inform their local newspapers and broadcasting stations of the key items in this bulletin.



UNIVERSITY OF DENVER

An Independent University

University Park, Denver Colorado 80208

Penrose Library

March 3, 1986

Dr. Stanton T. Friedman 79 Pembroke Crescent Fredericton, New Brunswick Canada E3B 2V1

Dear Dr. Friedman:

Enclosed please find the balance of your order plus additional materials from folder 13 and Donald Menzel's bio. file.

The new material includes: (1) memo re. trial of John K. Ackley by Harlow Shapley dated Sept. 27, 1941, 8 p. (2) memo re. trial of John K. Ackley by Ernest Minor Patterson dated Sept. 27, 1941, 7 p. and (3) 4 p. on UFO research & bio. background. The total additional cost is \$2.00.

We look forward to your research. If we can be of further assistance please let us know.

Sincerely,

Annita A. Andrick

Assistant to the Curator

annita a. andreck

Engineering Research Associates, wo.



507 181 STREET SOUTH, ARLINGTON, VA.

24 January 1951

Dr. Donald H. Menzel Harvard College Observatory Cambridge 38, Massachusetts

Dear Don:

I'm very happy to hear that the Air Forces have granted you full clearance. I feel, of course, that the whole matter of questioning your clearance was completely unjustified. The strain imposed upon you during the hearings must have been heavy. However, now that everything is cleared up, perhaps it was worth it.

Sincere regards,

Doward

H. T. Engstrom

HTE: nlb

UNIVERSITY OF DUTTER

SAM B. WARNER 2960 CHAIN BRIDGE ROAD, N. W. WASHINGTON 16, D. C.

Jan. 22, 1951

Dear Donald,

Shortly Cofae recours your letter of Vancary 13to 4 received a teleflione call from your friend at Climal stating that you had been classed I am dolophital for your sale, but farterelady for all our soles. Our country needs your sources ou secret evolters. hope thes means that you will ouce more be coming often & Usslengton Holen & I hope that you will continue to stay with

Very sur couly yours,

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Pon Nengel Haward Hearticongratulation!

THEODORE E. STERNE R. F. D. 1, BEL AIR MARYLAND

19 dans,

Dear Don,

lations on the deavance. I hope you have will a clare to to valuable defence work: to hear of Suzanne's marriage. Trace intends to write Please remember we to Florence.

With best wisks, as ever, Ted

UNIVERSITY OF DEFFER

Andrew Comments - 32.



OFFICE OF THE CHAIRMAN OF THE CORPORATION

January 19, 1951

Personal

Professor Donald H. Menzel Harvard College Observatory Cambridge 39, Mass.

Dear Don:

I am delighted to hear that the clearance situation has been really cleared up satisfactorily on all grounds. It is disturbing and certainly aggravating when an honest person who tries to do his best for his country has to go through such an experience. I suppose we can say that it is one of the risks that we all have to take as the governmental agencies, charged with following up on clearances, sift the clues and try to find the evidence.

I have sometimes wished that some clever humorist, like the late Irvin Cobb, might write an article or a book on the subject, "I Tried to Serve My Country".

With best regards,

Very sincerely yours

KTC/s

Chairman

CARNEGIE INSTITUTION OF WASHINGTON

DEPARTMENT OF TERRESTRIAL MAGNETISM 5241 BROAD BRANCH ROAD, N. W. WASHINGTON 15, D. C.

TELEPHONE: WOODLEY 0863

Plear Dan;

Jewas minerally pleased of

get your note. The issue was

where in doubt in the runds of

your friends, and we were all

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to know that it is now reached.

With known to pards

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(Berkner)

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JULIAN W. FEISS 310 FOREST DRIVE FALLS CHURCH, VA.

> July 7th. 1950

Dear Don:

Knewing that you were out of town I have delayed replying to your letter of the 27th. Until yesterday there was very little that I could have written anyway.

My letter to President Conant was answered by Mr. David W. Bailey, Secretary of the Harvard Corporation. It was a completely noncommittal statement; apparently the officials at Harvard are inclined to stand on the legal aspects of the ease, not the moral or ethical aspects. I was discouraged at this but suppose their stand is logical. Mr. Bailey was obviously not entirely comfortable about his reply. I suspect that he squirmed in his chair as he wrote it. Hime was a fighting letter and of course I was thinking a bit of Emil Zola when I wrote it; his was a weak reply in that it took the stand that Harvard University could not very well defend members of her faculty if they got into trouble consequent of extra-curriculum activities. In other words, Harvard takes the stand that there is no objection to your doing work for Uncle Sam on the side but if you get into trouble as result, Harvard cannot become involved. I will show you the letter next time you are here.

Robertson who is definitely "hombre may simpatice." We sat fer about 2 hours sipping beer at the Cosmos Club and I didn't pull any punches. In view of the fact that a very close friend of his who is working on the Navy scientific staff, and who is a most important man under him, has also become involved under charges similar to yours, Robertson was most sympathetic and understanding. Rest assurred that he understands your case; we parted with the feeling that it is all hogwash and I am convinced that he agrees with me - the time has come to put an end to this nonsense.

Jim Boyd is convinced that the entire business requires investigation and he sincerely believes that many charges similar to those directed against you have been the result of one of two things: subversive action on the part of those who might desire to impugne the reputations of valued scientists or plain stupidity on the part of amateur or poorly trained sleuths. Were I trying to sabotage the American scientific program I'd see to it that American scientists were falsely accused of subversion - were I a Communist I'd consider such accusations as the most effective way of gaining my emis. Think it over. I have had a feeling for a long time that 5th column tactics can be played in this manner. Review your own case with this in mind - your situation is by no means unique and I understand that your case is being observed with close attention throughout scientific circles. The news has definitely gotten around in Washington concerning your situation

THITTERS ITY OF DITTERS SELECTIONS

and whether you know it or not, you are not the individual on trial. On trial is the whole system.

I have a feeling that the Korean situation may clear the air. I am fearful that we will be faced with a long and bitter battle in the Far Rust and that furthermore pressure from the U.S.S.R. may be increased. In view of this situation, I pointed out to Dr. Robertson that we would need the abilities and skills of all our scientific men and that any measures that he could take to protect their standing would, in my opinion, be a real contribution at this time. Unfortunately the Fuchs case has complicated matters and as he was apparently not alone in his actions, suspicion has embraced more than a few scientists. Dr. Robertson and I discussed all these phases of the problem and I parted from him with a feeling of profound respect for his intelligence and good sense. I think you have a friend in court.

We are busy preparing for our western trip. Anne leaves for Cleveland next Friday and I will follow on July 21st. We will be back in Washington on Angust 26th or 27th. I have a most comprehensive itinsrary including a visit to Butte where I will address the Montana Mining Association, a trip through the Yellowstone and Jackson's Hole, a visit to our experiment station at Larenie, a stopover in Denver, a trip to Rifle and our oil shale plant, a side trip to see the Leadville Tunnel operations and Climax, another trip to Mesa Verde and Grand Junction - then home via Louisiana, Missouri to see our synthetic (oil from coal) plant. It promises to be stremous but a lot of fun as well.

We will be in Denver from Angust 8th to the 10th and if you have any news regarding the decisions of the Leyalty Review Board, write me c/o Dr. Harry C. Brown, 345 Franklin St. I will return via Denver on the 21st of the month so a letter there prior to that date will be held for me. This is August of course so from the 8th to the 21st I can be reached at Dr. Brown's home.

Keep a stiff upper lip and don't worry about this business now that it is past. I cannot help but feel that you will be vindicated and like so much of life, in the end it will vanish as a bad drawn: Your friends will stick by you and if you have ensuies you don't care what they do or think anyway. I hope that you have had a good rest in Mexico and that you will return with the old rest for living as always.

Edie thanks you for the card am sends her love.

Faithfully

Dr. Vannevar Bush, President Carnegie Institution of Washington Sixteenth and P Streets, N.W. Washington, D. C.

Dear Van:

The hearings were finally completed on June 12 and I am just beginning to come back to life. Of course, some time will be necessary in order to get a full review of the case and a final decision. I shall let you know what the result is but, in the meanwhile, I want to thank you again for your generous help.

I am off for Mexico City and the meetings of the American Physical Society.

Sincerely yours,

Donald H. Menzel

DHM: mgb

ETHOTAL COLLABORIOUS

Admiral Earl Stone Naval Communications Annex 3801 Nebraska Avenue Washington 16, D. C.

My dear Admiral Stone:

I want to thank you again for your kind assistance during my recent difficulties. Everything is now in the final stages, although I suppose a month or two will elapse before a final decision is reached. I shall let you know the result as soon as I hear. Meanwhile, my very best wishes and sincere appreciation for your hind letter. Please give my best regards to Captain Wenger.

Cordially yours,

Donald H. Mensel

DHM:mgb

Admiral Joseph Redman General Offices Western Union Telegraph Company Washington, kD, C.

My dear Admiral Redman:

I want to thank you again for your generous support during my recent difficulty. The formal hearings were completed on June 12 and I have only to sit back and wait -- although I am taking a short trip to Mexico City in the meanwhile.

I shall let you know as soon as I have any final answer. Again, my thanks and best wishes.

Cordially yours,

Donald H. Mennel

DHM: mgb

Dr. Urner Liddell
Office of Naval Research
Navy Department
Washington 25, D. C.

Dear Urner:

I want to thank you again for your kindness in coming up to Boston. The affair dragged on and on, but is now over — thank God! I am trying to get a little rest and change by going to Mexico City and also to Colorade and Alamogorde. I shall let you know, however, as soon as any news comes about the results. I am fully confident, however, that everything will be all right. Again, thanks a million, and I'll be seeing you.

Cordially yours,

Donald H. Mensel

DHM:mgb

(Dictated on or about June 12)

JULIAN W. FEISS 310 FOREST DRIVE FALLS CHURCH, VA.

> May 27th. 1 9 5 0

Dear Don:

Just a brief note to thank you and Florence for your hospitality last Thursday. I regret that the weather prevented our having a longer evening together. My return trip to Washington was uneventful. The plane was on schedule and Anne met me at the airport with Edie and Geoff.

I had ample time to review events on the trip home as I was alone and my eyes were too tired to permit reading. Also, I was not in the mood for it. One thought that occurred to me, and I hinted at this in a conversation with Mr. Proctor en route to the airport, concerns some sort of action to be taken with respect to notifying Coulter that his charges have failen flat and that he has been guilty of a contemptable action. I in just about 100% certain that you will be cleared but irrespective of the outcome, any man who refuses to stand back of his accusations is in my opinion nothing less than a poison pen artist - something just short of a blackmailer.

It is apparent that no legal action can be taken, apparently the laws of libel do not apply. However, someone in a high position with respect to this investigation should bring to the attention of both Coulter and Abrams the fact that by making accusations and refusing to appear to support their contentions, they are actually guilty of an attack upon the United States and its defense plans. Your work with both the Navy and Air Forces is too important to permit interference by irresponsible individuals who refuse to support their own charges. Coulter and Abrams, although the latter undoubtedly was a "yes man" in this case, must be made to understand the seriousness of their charges and the consequences of their irresponsible behavior.

Furthermore, Walter Roberts must also know what his stupidity has resulted in. Someone must inform him. Probably this should be done after the hearings are over but I think that irrespective of the outcome, measures must be taken to see that these men feel the weight of our opinion - by "our" I mean of course the many witnesses who are appearing in your defense. No man can escape the consequences of his acts. In Walter's case it may be too late to save him but at least his guilt is the lesser in your case. Please discuss this matter with Mr. Proctor and let me know his opinion. You can't take this lying down; to do so would be a tacit admission of guilt.

Don't worry overmuch. The board appears to be composed of decent young men and I suspect that they do not find their task any too pleasant. Good luck and keep the chag flying.

Faithfully,

Dr. Halter Orr Roberts High Altitude Observatory University of Colorade Boulder, Colorado

Dear Roberts:

I have the copy of your letter to Menzel dated April 14 referring to matters of clearence. Menzel is away, and so is his letter to you. I reply them somewhat in the dark.

When I come to Denver about the 16th of May we must sit down and talk this ever seriously and calmly and effectively. Mensel is in almost constant contact with the military. It is perhaps asking too much of him that he be generous toward dogged friends of individual civil liberties. Perhaps this is a time of emergency to him. And perhaps this

But I am with you completely. The research is not worthwhile, the success of applause from the brase is not worthwhile, if one must betray basic American principles of freedom. I do not like totalitarian operations or operators.

Sincerely yours,

CC---DHM

UNIVERS SPECIAL

May 9, 1950

PERSONAL and CONFIDENTIAL

Dr. Karl T. Compton
37 Fayerweather Street
Cambridge, Massachusetts

Dear Karl:

I have tried to get in touch with you by phone, but find that you are away until Friday. Unfortunately I shall be away at that time; hence this brief note.

As you perhaps know, I have been doing, on a casual basis, some confidential work for the Air Forces, for the Navy, for the Research and Development Board, and for the Bureau of Standards from time to time.

I was astounded to find, a couple of weeks ago, that the Air Forces had reveked my clearance, and I am coming up for a hearing on or about May 24. The charges, among others, include such statements that I was leader of the Harvard-M,I.T. expedition to Russia in 1936 and wrote some friendly comments about the Russian cooperation (incidentally, with Joe Boyce as co-author).

My counsel, Mr. Rebert Proctor, may call you during my absence and ask whether you would be able and willing either to appear or to make a statement in my behalf. He will explain some of the additional points that I do not wish to put in a letter.

Sorry to trouble you, but I feel that I must fight this with every ounce of my strength.

With best regards, I am

Cordially yours,

Donald H. Menzel

DHM:mgb

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Richard Helms, on the other hand, argues that proper reporting and authorizing procedures existed and were followed. From the carliest days of the agency, the 5412 Committee or its equivalent approved or disapproved operations to protect the President from direct involvement, "so that if something went sour and the President wanted to sacrifice all these fellows, they could be sacrificed because they were appointees. A President is elected for four years. We don't have a parliamentary system and you can't get rid of a President for having made a bad call, and therefore he has to be insulated from certain things." Concerning plausible denial, in other words, "It was not necessarily presidential authority that backed these things, it was the authority of these officials." Since "these officials"—the 5412 Committee or its equivalents—consisted of representatives of the secretaries of defense and state (or the secretaries themselves), the director of Central Intelligence and the President's national security adviser, it is a moot point whether it would be simply their authority behind CIA operations. As appointees, they enjoyed delegated presidential authority. However, in Helms's view, the agency would obtain its permission from this group and make periodical reports about operations as they took form and unfolded, "and certainly if there was a change in the administration, the agency would come back to make sure the operation was satisfactory to the new administration."

Helms, as a director of Central Intelligence who held office under two presidents, no doubt operated in this way. But in 1960 another DCI was in place and things may well have been different:

The agency says that the President is its sun, moon, and stars and that it does nothing without specific approval. That's what they told the new administration [said McGeorge Bundy], but what they never said was that there are some things you don't spell out. The two propositions don't hang together. You cannot really say you are the President's men and then say that of course there are some things we do for him that we don't tell him about. It was a carcless or inaccurate reliance, if you like, looking back on it, on these assurances that was part of the trouble. I had that serene confidence that we knew what was going on until the assassination stories began to appear years later.

For Helins this was not quite the position; the 5412 Committee or its equivalents approved operations. "If they did not approve an operation, then we would not attempt to carry it out. That is not to say that the national security adviser would not go up the back stairs and tell the President what we had decided to do and ask 'Do you have any objections?' "It was the committee's job to authorize, and it could always change its mind. Thinking back on the reporting system he remembered, McGcorge Bundy said:

There is a terrible danger that if you don't really listen extremely hard and have a relationship of mutual trust that is very close, you can get a situation

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PAGE 1 OF 1 PAGES

DRAFTER'S NAME (and signature, when required)

RELEASING OFFICER'S SIGNATURE

EARL 1. JOHNSON HAJ BAY

SYMBOL

TELEPHONE

TOPICAL TITLE

October 16, 1953

Major General John A. Samferd ATIC Dayton, Ohio

Dear General Samford:

I am planning to be in Washington on government business Thursday and Friday, October 22 and 23. I plan to arrive at Washington airport at 4:04 P. M. Wednesday, October 21. From various repasts Ljudge that some of my explanations of flying saucers have either been misinterpreted or misunderstood. I regret that I cannot get to Washington earlier on Wednesday but if it is possible to do so I should like to talk with you then or if you prefer later on during the evening. I shall also be available Thursday. I should be delighted to most with as many members of ATIC as find it convenient to come.

I should appreciate having a wire to confirm this conference. I shall plan to take a taxi immediately from the airport to the Postagos.

Very truly years.

Donald H. Menzel Acting Director

cc: Maj. General John A. Samford Project Bluebook Pentagon Building Washington, D.C. Lt. Edward J. Ruppelt, Col. Frank L. Dunn

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DHM/m

Harvard Callege Observatory Canadidge 38, man.

polymer synthesis also applied to the elucidation of oxidation and other radical reactions, thus giving an added dimension to reaction kinetics.

In the same context and over the whole period, Melville did a great deal of work to determine the elementary reactions of radicals in the gas phase. This led to more complete understanding of the elementary photochemical decomposition processes of simple molecules. Further, his devising of special methods of great sensitivity enabled extremely fast chemical reactions to be quantitatively studied. These were concerned with the interactions of hydrogen atoms with hydrocarbon molecules of all kinds.

Melville took his B.Sc. in chemistry in 1930 at the University of Edinburgh and later received his Ph.D. and D.Sc. in the same university. Going to Cambridge in 1933 with an 1851 Senior Scholarship, he became a fellow of Trinity College in 1935 and assistant director of research of the Colloid Science Laboratory in 1938. The war years were spent in the Ministry of Supply in the Chemical Warfare Department and also in the Radar Research Station. He was appointed professor of chemistry at Aberdeen University in 1940 but did not take up the appointment until 1945. In 1948 he was appointed to the Mason Chair of Chemistry at Birmingham, and in 1956 he became secretary of the department of scientific and industrial research. On the reorganization of civil science in the United Kingdom in 1965, he became chairperson of the Science Research Council. He resigned from the chair of the council in 1967 to become principal of Queen Mary College in the University of London, and retired from that position in 1976. During this latter period he became chairperson of the Advisory Council on Research and Development of the Ministry of Fuel and Power, president of the Rubber and Plastics Research Association of Great Britain, president of the Plastics and Rubber Institute, chairperson of the Managers of the Royal Institution, and a chairperson of the Council of Westfield College of the University of London.

Melville wrote Experimental Methods in Gas Reactions, with A. Farkas (1939), and Big Molecules (1958).

For background information see CHAIN REACTION, CHEMICAL; POLYMERIZATION in the McGraw-Hill Encyclopedia of Science and Technology.



MENZEL, DONALD HOWARD

* American astrophysicist

Born Apr. 11, 1901, Florence, CO, U.S.A. Died Dec. 14, 1976, Cambridge, MA, U.S.A.

Menzel's work ranges over the broad field of astronomy and astrophysics, with occasional ventures into pure physics. Most of his studies were concerned in some way with the interpretation of the spectra of various celestial objects: stars, the Sun, planets, and the gaseous nebulae. His doctoral research, carried out at Harvard Observatory under a fellowship from Princeton University, dealt generally with the relationship between stellar spectra and the surface temperature of the stars. British scientists R. H. Fowler and E. A. Milne had developed the theory of stellar spectra. Menzel used the extensive Harvard collection of spectroscopic records to test and extend the theory. See MILNE, EDWARD ARTHUR.

Menzel early became interested in the radiations of planets. From the spectra of Jupiter, Saturn, Uranus, and Neptune he deduced that the planets must be very cold substars, and not hot substars as astronomers then generally supposed. Using infrared measurements made by W. W. Coblentz and C. O. Lampland at the Lowell Observatory, Menzel confirmed his conclusions about the temperatures of the major planets and derived the first quantitative figures for the temperatures of Mars, Venus, and the Moon.

In a further study of Venus, F. L.

Whipple and Menzel challenged the opinion then current that the clouds of Venus were some form of dust. They showed that the observed low temperature of the upper atmospheric layers was consistent with clouds of ice crystals. J. Strong, in observations made from a highaltitude balloon, later detected an amount of water vapor substantially agreeing with that predicted by Whipple and Menzel. A collaborative study by G.-de Vaucouleurs, H. Ingrao, and Menzel of data recorded at a rare event, an occultation of the bright star Regulus by Venus, gave new determinations of the temperature and density of the Venusian atmosphere. See WHIPPLE, FRED LAWRENCE.

At Lick Observatory, Menzel fell heir to the flash spectra taken by W. W. Campbell and his colleagues at various eclipses. These were spectra of the Sun's atmosphere. Menzel's analysis of the data, interpreted by astrophysical theory, led to many new discoveries about the Sun's outer layers. He measured quantitatively the temperature and pressure of the chromosphere, as well as its chemical composition. Of special impact was the fact-that: the upper atmosphere attained temperatures of 15,000-20,000 K, several times higher than that of the photosphere, the Sun's shining surface. Menzel's determinations of the low density gradient furnished the chief clue that hydrogen was the dominant element on the Sun.

Studies of eclipse-spectra and of eclipses in general led Menzel to observe some 12 eclipses through 1966, of which 9 were clear. He was a member of two. Lick Observatory expeditions in 1930 and 1932. In 1936 he led the Harvard-Massachusetts Institute of Technology expedition to Kazakhstan in the Soviet Union. One by-product of the spectral data obtained from such eclipses was the fact that the temperature of the Sun's corona must be very high and that the coronal lines; whose origin was then unknown; must originate in high stages of ionization of some well-known element. B. Edlen later showed that the green coronal line comes from iron atoms that have lost half of their normal complement of 26 electrons.

Frustrated by the infrequency and the shortness of eclipses, Menzel began experimenting with artificial eclipses in an attempt to get more observations of the corona. J. H. Moore and Menzel had earlier called attention to this possibility. The

French astronomer B. Lyot invented and brought the coronagraph to perfection. Menzel designed the first coronagraph in the United States and established it at Climax, CO, at an altitude of 11,500 feet (3508 meters). This instrument furnished many valuable observations of solar activity. He later established a second and more advanced coronagraph station at Sacramento Peak, NM. From studies made at these observatories Menzel developed new theories of solar structure. He showed that the intense magnetic fields existing in sunspots directly caused the lower temperatures. He further demonstrated that solar flares result from the same general cause, an instability associated with the magnetic field of a lipolar spot. See Lyot, Bernard Ferdinand.

Working with students and colleagues, Menzel performed a detailed study of physical processes in gaseous nebulae. The results appeared as a long series of papers in the Astrophysical Journal. To solve such problems, he had to carry out parallel research in atomic physics, with the aid of quantum mechanics. He also made a special study of radiation from atomic hydrogen, including emission in the radio range, from levels with very large quantum numbers.

During World War II Menzel served as a commander in the U.S. Navy, where he directed the section on research in mathematics and physics for naval communications. His studies of the propagation of radio waves prompted the writing of a technical manual on the subject.

Menzel attended public school in Leadville and Denver, CO. After receiving his A.B. (1920) and A.M. (1921) from the University of Denver, he went to Princeton, where he received another A.M.-in 1923 and the Ph.D. in 1924. He taught at the University of Iowa in 1924-25 and Ohio State University in 1925-26. From 1926 to 1932 he was at ... Lick-Observatory, with two semesters at the Berkeley campus. He went to Harvard University in 1932 as an assistant professor...of astronomy, and was appointed associate professor of astrophysics in 1935 and full professor in 1938. In 1952 he became acting director and in 1954 director of Harvard College Observatory, a post he held until 1966. He became Paine Professor of Practical Astronomy at Harvard in 1956. In 1959 he became chief scientist of the Geophysics Corporation of America and in 1966 senior scientist of the Smithsonian

Astrophysical Observatory. He was president of the American Astronomical Society from 1954 to 1956. Menzel was elected to the American Academy of Arts and Sciences in 1934, to the American Philosophical Society in 1940, and to the National Academy of Sciences in 1948.

Menzel wrote or edited many books, including Stars and Planets (1931; 3d ed.) 1938), Our Sun (1949; 2d ed. 1959), Mathematical Physics (1953; paper 1961), Fundamental Formulas of Physics (1955; 2d ed., paper 1960), The Radio Noise Spectrum (1960), Field Guide to the Stars and Planets (1964), and Papers on Radiative Transfer (paper 1966). His interest in good writing led him to coauthor Writing a Technical Paper, with H. M. Jones and L. G. Boyd (1961). He also wrote Flying Saucers (1953) and coauthored The World of Flying Saucers, with L. G. Boyd (1963), to show that UFOs are natural phenomena and not vehicles from outer space. He also wrote extensively for young people, especially in the magazine Highlights for Children.

For background information see As-TRONOMICAL SPECTROSCOPY; ECLIPSE, ASTRONOMICAL; PLANET; SUN in the McGraw-Hill Encyclopedia of Science and Technology.

MERRILL, PAUL WILLARD

American astronomer

Born Aug.15, 1887, Minneapolis, MN,

Died July 16,1961, Los Angeles, CA, U.S.A.

While studying the spectra of long-period variable stars. Merrill discovered the presence of technetium in stars of spectral type S. Since no stable isotopes of technetium had been found on the Earth, the discovery necessitated the postulation of a nuclear process within S-type stars that would result in the formation of technetium atoms to replenish those lost through radioactive decay.

Technetium, the first of the artificially produced elements, was identified in 1937 after Emilio Segrè and Carlos Perrier had bombarded molybdenum with deuterons in the 57-inch (1.45-meter) cyclotron at the University of California. Although technetium has since been isolated from fission products of heavy elements, no completely stable isotope has been found. William F. Meggers and Bourdon F. Scribner at the National Bureau of Standards investigated the spectrum of technetium in 1950. Their work made it possible to identify the element in the spectra of celestial bodies. See SEGRE, EMILIO GINO.

In 1952, while working with the 100inch (2.54-meter) telescope at the Mount Wilson Observatory in California, Merrill prepared the spectrogram of the long-period variable star R Andromedae. The spectrum of R Andromedae, an S-type star, should have been characterized by bands of zirconium oxide and by relatively strong lines of heavy metals, such as zirconium and barium. The spectrogram, however, which had a dispersion of 10 angstroms (4-nanometer)-per-millimeter, showed several lines that had never before been observed. Merrill identified these as strong absorption lines of neutral technetium. The strongest of the lines were in the a65-z6P0 multiplet, analogous to the triplet at the wavelength of 4030 angstroms (403 nanometers) in the spectrum of manganese. Merrill also found the strong absorption lines in the spectra of the other S-type stars, and his discovery was verified by I. S. Bowen using the 200-inch (5.08meter) telescope at the Mount Palomar Observatory. See BOWEN, IRA SPRAGUE.

To explain the presence in S-type starsof an element of which no stable isotopes are known, Merrill offered three alternatives. One, of course, was that a stable isotope of technetium exists, although it is not yet known on the Earth. A second was that S-type stars represent a comparatively transient phase of stellar existence and that



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ultant, 245 East YSICS AND AP-YSICS AND AP-,
Va., Sept. 30,
tle (Johnson) M.
J.A., Poly. Inst.
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Dept., Brooklyn
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Editor, College
sultant, N.Y.C.,
i. Central Assn.
Museum of Nat.

Prof. of Phys., a. 32306. Home see, Fla. 32304. 4ATICS. (See Vol.

), Prof. of Geol., la, Calif. 92037. La Jolla Calif. Ssno, Calif. Dec. Blanche (Hodges) M.S., ibid., 1947; Gifford Merrill, Gifford Merrill, beth M.; Dorothy Lab.; Samarine Geol., Inst. Inst. of Oceanog., eol. Soc. of Am.; 5. Union. Author: 1964. Contbr. to: oc. of Am. Bull.; S., 1942-51. Gen. ierous Deep-sea 1: Oceanography.

he Decanography,

PH.D.) Prof. of

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ER (M.D., PH.D.), 1., Univ. of Pa., 19104. Home Hill, Pa. 19026. DNCOLOGY AND L.A.S.).

PH.D.), Biochem., nal Health Rsch. Cincinnati, Ohio Terr., Cincinnati,

Vol. 5-L.A.S.).

Physician, 1136, iome Add.: 1200, NTERNAL MEDI-HYPERTENSION.

Stone Prof. of pwa-50112. Home 50112. BIOLOGY.

Prof. Vanderbilt.
Prof. Vanderbilt.
Prof. John Street
Prof. John Street
Prof. Stree . Contor. to: Am. utr.; Proc., Exptl. phys. Acta; Jour. d. Areas of Rsch.; Parenteral Nutri-

sst., Dept. of Elec. nbus, Ohio 43210. ... Columbus, Ohio iNG; RADIO AS-19: 1920 Chao-

Univ., 1954; M.S., Okla. State Univ., 1958; Ph.D., Ohio State Univ., 1968. Exp.: Grad. Fellow, Cornell Univ., 1958-59; Rsch. Asst., ibid., 1959-61; Rsch. Asst., Ohio State Univ., 1961--. Mem.; Am. Astron. Soc.; Inst. Elec. and Elec. Engrs. Contbr. to: Nature; Astronomical Jour. Areas of Rsch.: Twenty-one cm. Hydrogen Line Investigation of Galactic and Extra-Galactic Sources; Electromagentic Theory; Antennas; Ionospheric and Tropospheric Radio Wave Propagation.

MENN, JULIUS J. (PH.D.), Mgr., Insecticide Rsch. and Biochem., Stauffer Chem. Co., P.O. Box 760, Mountain Ylew, Califf. 94040. Home Add.: 20375 Wolcot Wy., Saratoga, Califf. 95070. ENTOMOLOGY, INSECT TOXICOLOGY. (See Vol. 6-L.A.S.).

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MENTON, ARTHUR FRANCIS (MR.), Systems and Management Engring. Consuit., 9 Avdon Lane, Huntington, L.L. N.Y. 11743. MANAGEMENT SCIENCE AND SYSTEMS, MECHANICAL ENGINEERING. b.: N.Y.C., N.Y., Aug. 6, 1932.s.; Alexander and Mildred (Sahr) M. Edn.: B.M.E., Coll. of the City of N.Y., 1954. M.M.E., ibid., 1959; D.Eng.Sci. (cand.), N.Y. Univ. m.: Judith Kroe, Sept. 1955. c.: Marc Andor; Deborah Ellen. Exp.: Rsch. Asst., Columbia Univ., N.Y., 1953-54; Design and Dev. Engr., Radio Corp. of Am., Moorestown, N.J., 1954-55; Sr. Analytical Engr., Fairchild Engine Div., Deer Park, N.Y., 1955-59; Systems and Mech. Engr., Cons., Dir. of Mech. Engr., Servo Corp. of Am., Hicksville, N.Y., 1960-63; Hd. of Adv. Dev.; Vacuum-Electronics Corp., Plainview, N.Y., 1963-64; Consult. in Mgt. Sci., Sys. and Mech. Engrng., 1959---; Adjunct Mem., Mech. Engrng. Dept., Cooper Union, N.Y., 1959---; Prof. of Ind. Mgt., Poly. Inst. of Brooklyn, Farminddale, N.Y., 1967---; Asst. Prof. of Mgt. Engrng., L.L. Univ., Brookville, N.Y., 1964---, Hon. Pos.: Am. Vacuum Soc., Standards Com.; Huntington Town Planning Bd.: Transportation Adv. Com. Mem.: A.A.

for Decision Making, 1988. Contbr. to: Sci. Publications: Missiles and Space; Materials in Design Engrng.; Machine Design; Space/Aeronautics. Gen. Int.: Sys. and Operations Rsch., Psychodynamics in Mod. Soc.; Maj. Contributions to Talos, Minutem an and Polaris Systems. Areas of Rsch.: Order.-disorder Phenomena and Effects on Material Properties; Material Studies Under Space Environment, Infrared Detectors; Studies of Phenomena Associated with High and Ultrahigh Vacuum and Equipment to Produce Such Vacuums; Wide Range of Rsch. in Management Science; Schizophrenia in Industrial Settings.

Such Vacuums; Wide Range of Rsch. in Management Science; Schizophrenia in Industrial Settings.

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MENZEL, ROBERT WINSTON (PH.D.), Assoc. Prof., Marine Biol., Dept. Oceanog., Fla. State Univ., Tallahassee, Fla. 32306. Home Add.: 1605 Kolopakin Nene, Tallahassee, Fla. 32301. MARINE BIOLOGY. (See Vol. 7-L.A.S.).

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MERENDA, PETER FRANCIS (PH.D.), Prof. of Psy-

Add.: 258 Negansett Ave., War PSYCHOLOGY. (See Vol. 7-L.A.S:

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MERGEN, FRANCOIS (PH.D.),
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Conn. 06514. FOREST GENET
Luxembourg, May 1, 1925. s.;
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bourg Coll., 1946; B.S.F., Univ.,
1950; M.F., Yale Univ., 1951;
m.: Andree Bodson, Aug. 2, 194
Exp.: Rsch. Asst., Dominion Fore
Ont., Can., 1949; Rsch. Asst.,
Lake City, Fla., 1951; Proj. La
Forest Expt. Sta., Lake City, F
Prof. of Forestry, Yale Schl. of
Assoc. Prof., Genetics, ibid.,
Genetics, ibid., 1963---; Pincho
roibid., 1965---; Dean, Schl. of F
--- Mem.: Sigma Xi; Soc. of Am.
to: Jour. of Forestry; Forest/S.
Sci.; Unasylva; Plant Physiol.
Tappi; Bot. Gazette. Serv. Rec.;
W. W. H. Areas of Rsch.: Veg.
of Southern Pines, Flowering
Mutation Induction; Genotype-En
tion; Hybridization in Forest
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Oak Forest.

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MERKEL, ROBERT SYDNEY (MR formation Ctr., Inst. of Textile T ville, Va. 22902: Home Add.: 112 1, Sherwood Farms, Charlotte TEXTILE CHEMISTRY.

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MERORY, JOSEPH (MR.), PIER, vors. Inc., 26 Kulick Rd., Fairfie Add.; 243 Lake Shore Dr., Lake FLAVORING FOR FOOD AND FLUCTION OF CORDIALS, LIQUE FLAVORED BRANDIES, b.; Buc 6, 1895, s.; Jacob and Ester (V. Chem. Engrug., Technol. in Villing. Chim., Inst. Sup. Techn. e. glum, 1927, m.; Sarah Leibov C.; Mrs. Edith Collinsworth, E. Fries and Bros., Bloomfield, N. Techn., Van. Ameringen-Haebld 1941-43; Flavor Techn., Joe 1944-48; Flavor Techn., Givaud 1948-52; Pres., Merory Flav: Mem.; Internati. Platform As Technols.; Am. Assn. of Ceso Lodge No. 918 F & AM. Author Composition Manufacture and U. and Published, Union Scientific of the V.M., J.J.K.O.P. Moscow Flavorings, 2nd Edition, Revised Combr. to: Harpers Wine and Revue des Boissons; The Lee-C. Engrng. Gen. Int.; Development and Cake Flavor for Use in Making and in "Instant Bread Appl. Pend.), 1966. Areas of Apparatus for Production of Alc. Fractioned Distillation, Austria Fruit Flavors, Products and M. No. 2,865,756.

Fruit Flavors, Products and M No. 2,865,756.

MERRILL: JOHN ELLSWORTH (F Dept. of Astron. and Mathy Grayette, Mo. 65248. ASTRONOM Maine, May 10, 1902. S. Johnson, M. Edn.; A.B., Boston Univ., 192 1927; M.A., Princeton Univ., 1931. m.: Esther Mary Ives, Laura May Esther; John Raym, Math., Case Schl., 1924-26. Institon, 1929-30; Asst. Prof. of Astron., But 1932-36; Rsch. Asst. in Astron.; But 1932-36; Rsch. Asst. in Astron.; Grant Coll., 1940 (Astron., Ohio Wesleyan, 19: 1951-59; Rsch. Assco., Princeta; Visit. Prof. of Astron. Univ.; Unit. Mathy Ma

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MENYUK, NORMAN, b. New York, N.Y. June 13, 23; m. 50; c. 3. PHYSICS. B.S. South Dakota, 48; M.S. Ohio State, 49; Columbia, 50-52. Asst. physics, Ohio State, 48-49; engr., Sperry Corp., 49-50; asst. physics, Columbia, 50-52; lectr., Tufts, 56-59; MEM. STAFF, LINCOLN LAB, MASS. INST., TECH, 52- U.S.A., 42-46. Phys. Soc; N.Y. Acad. Sci. Magnetic properties of matter, particularly in the exchange interactions and spin configurations in ferrimagnetic compounds. Address: Lincoln Lab, P.O. Box 73, Lexington, Mass. 02173.

MENZ, DR. LEO J(OSEPH), b. Erte, Pa, Mar. 7, 27; m. 54; c. 4. BIOPHYS-ICS. B.S. Gannon Col. 49; M.S. St. Louis, 52, Ph.D. (biophys), 57. Asst. prof. biol. & dir. dept, Gannon Col. 54-57; RES. ASSOC, AM. FOUND. BIOL. RES. 57- AAAS; Soc. Cryobioti: Electron Micros. Soc; Biophys. Soc. Effects of low temperature on biological material; freeze-drying, ultra-thin sectioning and electron microscopy of individual muscle fibers, cells or cell extracts. Address; American Foundation for Biological Research, R.D. 1, Madison, Wis. 53716.

MENZEL, DR. ARTHUR E(DWARD) O(SCAR), b. Munich, Germany, Dec. 23, 99; nat; wid. CHEMISTRY. Munich, 19-23; Ph.D. Erlangen, 25. Asst, govt. chem. lab, Munich, Germany, 25-27; Kaiser Wilhelm Inst, 27-28; asst. chemist, res. lab, Chas. Pfizer Co, 29; tech. asst, Rockefeller Inst, 30; Nat. Tuberc. Asn. fel. & instr. blochem, Columbia, 30-38; assoc, Squibb Inst. Med. Res, 38-47; head blochem. & immunochem, div. allergy, ROOSEVELT HOSP, 47-50, SR. RES. CHEMIST, INST. ALLERGY, 50- AAAS; Chem. Soc; Acad. Allergy; N.Y. Acad. Sci. Luminography; formaldehyde; immunochemistry of tubercle bacilhus and meningococcus; antibiotics; immunoserology of allergies. Address: Institute of Allergy, Roosevelt Hospital, New York, N.Y. 10019.

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MENZEL, DR. DAVID W(ASHINGTON), b. India, Feb. 22, 28; m. 52. OCRA-NOGRAPHY. B.S. Elmhurst Col. 49; M.S. Illinois, 52; Ph.D. (fisheries), Sichtgan, 53. Res. biologist, Bermuda Biol. Sta. 57-63; ASSOC. SCIENTIST, WOODS HOLE OCEANOC. INST, 63. U.S.A, 52-54. Ecology and physiology of marine plankton. Address: Woods Hole Oceanographic Institution, Woods Hole, Mass. 02543.

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MENZER, PROF. CARL H(AMILTON), b. Lone Tree, Iowa, June 29, 00; m. 11; c. 1. ELECTRICAL ENGINEERING. B.E. Iowa, 21, M.S. 22, E.E. 25. Chief engr, Continental Radio & Mfg. Co, 22-23; PROF. ELEC. ENG, & DIR. RADIO STAS. WSUI & KSUI, IOWA, 23- Rockefeller fel, Nat. Broadcasting Co, 38-39; lectr, med. serv. grad. sch, Walter Roed Army Med. Center, 51-33. Electronics engr. & consult, Oper. Sandstone, Los Alamos Sci. Lab. & Fed. Security Agency, Eniwetok Proving Grounds, 48, Oper. Greenhouse, 51; Oper. Buster & Oper. Jangle, Las Vegas Test Site, 51; consult, Oak Ridge hast. Nuclear Studies, 50. U.S.A., 18. Inst. Elec. & Electronics Eng. Radio and television engineering; effects of nuclear weapons, especially radiological safety. Address: Dept. of Electrical Engineering, University of Iowa, Iowa City, Iowa 52240.

MENZER, DR. ROBERT E(VERETT), b. Washington, D.C., Dec. 21, 38: m. 62; c. 1. RNSECT TOXICOLOGY. B.S. Pennsylvania, 60; M.S. Maryland, 62; Ph.D. (entom, blochem), Wisconsin, 64. Res. asst. ENTOM, Maryland, 61-62, Instr., 62; Wisconsin, 64; ASST. PROF. MARYLAND, 64- AAAS; Chem. Soc.; Entom. Soc. Am. Insecticide chemistry an. iontendagy; metabolism of organophosphorus insecticides; insect blochemistry. Address: Degt. of Entomology, University of Maryland, College Park, Md. 20742.

MENZIE, CALVIN M(ELVIN), b. Baltimore, Md, June 24, 24; m. 47; c. 2. CRGANUC CREMISTRY. A.B, Hopkins, 49; M.S, George Washington, 56, Blood chemist, Hopkins Hosp, 49-50, org. chemist & supvr. lab, miv, 51-56; org. chemist, Nst. Bur. Standards, 50-51; PESTICIDE CHEMIST, PATUXENT WILDLIFE RES. CENTER, U.S. FISH & WILDLIFE SERV, 56-U.S.A, 43-46. Chem. Soc; N.Y. Acad. Chemistry of blood coagulation; synthosis of large cyclics; amino acid chemistry; pesticide toxicology and analysis; development and adaptation of analytical techniques for pesticides. Address: Patuxent Wildlife Research Center, Laurel, Md. 20810.

MENZIE, PROF. DONALD B, b. DuBois, Pa, Apr. 4, 22; m. 46; c. 4. ENGINEERING. B.S. Pa. State, 42, M.S. 48, Ph.D. 62. Jr. marine engr. Phila:
Navy Yard, 43-46; asst. PETROL. ENG, Pa. State, 46-48, instr. 48-51;
from asst. prof. to PROF. OKLAHOMA, 51- DIR, SCH. PETROL. ENG. 65Halliburton summer fel, 60. Consult, 51- Inst. Min, Metall. & Petrol. Eng.
Petroleum engineering. Address: School of Petroleum Engineering, University of Oklahoma, Norman, Okla. 73069.

MENZIES, PROF. ALAN W(ILFRID) C(RANBROOK), Chem, see 10th ed. Phys. & Biol. Vols, deceased 66.

MENZIES, DR. J(AMES) D(AVID), b. Vancouver, B.C, Can, Jan. 19, 15; nat; m. 42; c. 3. MICROBIOLOGY. B.S.A, British Columbia, 35, M.S.A, 39; Ph.D. (plant path), State Col. Wash, 42. Asst. timber path, Forest Prod. Labs, B.C, 35-36; lab. asst. British Columbia, 36-38; inspector plant diseases, seed potato cert. serv, Can. Dept. Agr., 38-39; asst. plant path, State Col. Wash, 38-42, asst. plant pathologist, 42-45; pathologist, div. solimgt. & irrig, U.S. DEPT. AGR, 45-53, SOIL & WATER CONSERV. RES. DIV, AGR. RES. SERV, 53-55, MICROBEOLOGIST, 55- Consult, agr. pros. Rockefeller Found, Chile, 60. AAAS; Phytopath Soc; Soil Sci. Soc; Soc. Agron; Soc. Microbiol. Soil microbiology; soil borne diseases. Address: 1806 Kimberly Rd, Silver Spring, Md. 20903.

MENZIES, DR. P(ERCIVAL) E(EITH), Surg, see 10th ed, Phys. & Biol. Vols. Latest known address: 119 Shirley Rd, Syracuse, N.Y. 13224.

MENZIES, DR. ROBERT J(AMES), b. Denver, Colo, Dec. 2, 23; m. 47; c. 4. ZOOLOGY, OCEANOGRAPHY. A.B. Col. Pacific, 45, Am. Acad. Sci. grant, 48, M.A. 49; Hancock Found. fel, Southern California, 49-51, Ph.D.(2001), 51. In charge Crustaces sect, San Diego Natural Hist. Mus, 43; res. asst, Hancock Found, Southern California, 46-47; instr. taxon. & curator mus, Pacific Marine Sta, Col. Pacific, 47-49; assoc. 2001, California, Davis, 51-52, res. biologist, Scrippè Inst, 53-55; dir. biol. prog, Lamont Geol. Observ, Columbia, 55-60; res. assoc. Southern California; 60-61, assoc. prof. biol, 61-62; PROF ZOOL. & DIR. OCEANOG, DUKE, 62- Lectr. marine biol, Modesto Jr. Col., 48; Ellsworth fel, Arctic Inst. N.Am, 56; dir. Margarita Marine Res. Sta, La Salle Found. Natural Sci, Caracas, Venezuela, 60. William P. Clapp mem. prize, 57. Fel. AAAS; Marine Biol. Asso. U.K. Marine boring organisms; isopods, fossil decapods, benthic marine ecology; marine fouling and corrosion; deep-sea oceanography. Address: Oceanography Program, Duke University Marine Lab, Beaufort, N.C. 28518.

MENZL, R(OLAND) L(EO), b. Chicago, Ili, Feb. 23, 24; m. 54; c. 2. CHEMICAL ENGINEERING. B.S. Ill. Inst. Tech. 49, M.S. 50. Group leader, STANDARD OIL CO.(RD), 50-65, PROJ. MGR. AM. OIL CO, 55- U.S.A. 44-48. Chem. Soc. bat. Chem. Eng. Petroleum processing. Address: 27 Coolidge St. Hammond, Ind. 46324.

MEOLA, PROF. ROBERT RALPH, b. Newark, N. J., Jan. 27, 27; m. 48; c. 2. SLECTRICAL ENGINEERING. B.S. Newark Col. Eng. 46; M.S. Stevens Inst. Tech, 49; summer, N.Y. Univ, 50; Polytech. Inst. Brooklyn, 57-59. JF. engr, Nat. Union Radio Corp, 46-47; instr. elec. eng. Newark Col. Eng. 47° 51; engr, West. Elec. Co. 51-53; instr. ELEC. ENG, NEWARK COL. ENG. 53-53, asst. prof. 55-60, ASSOC. PROF. 60- Summers, consult, int. Tel & Tel. Corp, N.J., 58-60, Hewlett Packard Co., 61-64,66, N.J. Bell Pt. Co., 68. Soc. Eng. Ed; sr. mem. Inst. Elec. & Electronics Eng. Nat. Soc. Profil. Eng. Amalysis and design of transistors and transistor circuits. Address: Dept. of Electrical Engineering, Newark College of Engineering, Newark, N.J. ... 07102.

SETTING THE RECORD

STRAIGHT ON THE MENZEL

HILLENKOETTER MATTER

Flying Saucers likes to be on the "correct" side of the fence - therefore we present the facts from octual records on the recent NICAP Men tel dispute.

Board Member: in regard to Vice. Adm. R. H Hillenkoetter. lievers - made the following claim tacker of UFD witnesses and be-L Harvard astronomer Donald H. N A recent Chicago broadcast, Menzel - an often violent atformer NICAP

Saucers) and thas told me he fully my book (The World of Flying dence, insists UFOs are only natu-Menzel rejects all positive eviaccepus all may explanations." (Dr. ing planes, reseteors, etc.) ral phenomers, errors in identify-"Adm. Hallenkoetter has read

member quoted Hillenkoetter as holding a commary view. credit NICAP, after an Affiliate parently was an attempt to dis-· Dr. Menzel's statement ap-

claim, as far as we know, was on record, in a signed Board Member Adm. Hillenkoetter was already on Boston station WEEL, late in 1964 The first wime Menzel made this

> for a Congressional investigation. Since a complete reversal of these dentification of UFOs as a secret problem's importance, the risk of statement, as stressing the URO Soviet attack, and the urgent need accidental war from mistaken imate and personal friend of Hillenrector, a Naval Academy classkoetter, wrote him about the Menviews was incredible, NICAP's di-

reproduced below. (The reference to Maj. Hart was not concerned with Adm. Hillenkoetter's reply 18

Maj. Donald E. Keyhoe, USMC

On Aerial Phenomena Dear Don: Washington 6, D. C. On Aerial Phenomena
1536 Connecticut Ave., N. W. National Investigations Committee;

I apologize for the delay in

:I think you were misinformed about never valked to Major Hart nor, some of the things you mention. never met him and would not knot siso as far as I remember, I have First, as far as I can remember, I holidays I was up in Massachusetts 1 Sut but for part of the time over the him if he walked in the door. 1 saw Dr. Menzel at a dimer in

NICAP or UPO. He did send me a copy of his book for which I thanked him but took no position on the conversation with Menzel about and I have never carried on any mas", there was no conversation "Good: Evening - Marry-Christstatements he made.

December but other than saying

for being so long in answering your letter and with best personal wishes to you, believe me, as Please take my apologies again

* R. H. Hillenkoetter Sincerely,

ののできた。

stress, we could only assume he program, arguing wunder some lenkoetter. Since be was on, a quiz not believe he would deliberately founded arracks on NICAP, we could make a false claim about Adm, Hillin spice of Dry Menzel's un-

from publishing the letter But claim, we have no choice. since Menzel is now repeating this

Curing his five years, on the if they were extraterrestrial we Board, Adm. Hillenkoetter strong. warranted secrecy. When he left dy: supported all NICAP policies, could do nothing but wait for them to felt we had reached a staleman, He including our views against unsecret U.S. or Soviet dévices, and said be knew the UFOs were not letter to the director, he said be as Dr. Menzel has implied, in a the Board, there was no ill feeling.

policy correct views was a stalemate, we did not argue advisers and members are conthis past year have proved this pare the public for whatever, deprove UFO reality and help prothe point, A ma jority of our Board velope. We believe the events of vinced a great deal can be done to Though we did not agree there

Major Donald E. Keyhoe, USMC November 10, 1965

on Aertal Phenomena
1536 Connecticut Avenue, N. W. (Rec) Washington, D. C. National Investigations Committee

Borne one else.

For this reason, we retrained heading "ADM, HILLENKOETTER Dear Major Keyhoe: in the UPO INVESTIGATOR for

Christopher D. Allan Stoke-on-Trent, U.K. material supplied by

NOTE that Hillenkoetter does NOT use rather than "Roscoe" as in MJD-12. the MJ-12/Moore date format and that he signed letter using initials (R.H.)

miral NICAP members concerning Adcasts, in reply to assertions by have made in various radio broadquestion the validity of statements l UFOs and NICAP. You suggest that koener with someone else." might have "confused Hillen-DENIES MENZEL CLAIM," You Dear Dr. Menzel? Hillenkoetter's views on

enkoetter's letter to me, dated get the facts on record," lenclose mindedness you attributed to me. Admiral was guilty of the absent-September 19, 1963. I fear that the nerewith the copy of Admiral Hillin view of your stated desire "to

the third paragraph of the Adimplied," stands at variance with no ill feeling, as Dr. Menzel has by myself and Mrs. Lyle Boyd and wrote a glowing tribute to "The ficer, United States Air Force, who since it was Major Carl R. Hart, was not concerned with Menzel," Admiral "left the Board, there was published by Doubleday. World of Flying Saucers", written Project Blue Book Information Ofthat "the reference to Major Hart it hard to accept your statement miral's letter to me. Further, I find Your statement that when the

Donald H. Menzel Sincerely yours, Director

Cambridge 28, Massachusetts Harvard College Observatory Doctor Donald H. Menzel September 19, 1963

> Please accept my deepest apole of your book, I was away for some Navy Department forwarded your ogies for the delay in answering time during the summer and the the acknowledgment of the receipt your letter of 2 August, as well as long time receiving it. letter to my home where I was:

done and I enjoyed it and found it of book. To my mind, it was very well mises about flying saucers being great interest. I should say that you from "outer space". You have done have effectively put to restall surthorough and praiseworthy job. Thank you very much for your

of the Earth", I resigned from not being so secretive. sible unknowns, into a body bickerout something definite about pos-NICAP about 20 months ago feeling that it had degenerated from an or-Force, too, could have helped by ing about personalities. The Air ganization honestly trying to find As I told you at the last "Ends

were so kind as to send me your fine job and I am very grateful you At all events, you have done a

of seeing you at the next "Ends of the Earth", please believe me. Again, with thanks and the hope Most Cordially,

* * R. H. Hillenkoener Vice Admiral, U.S.N. Vice President

> RAISE SOME IMPORTANT QUESTIONS. AUTHENTIC HILLENKOETTER

meeting of MJ-12. handing bother and Menzel MJ-12 ç įt really mail were to Hillenkoetter his new members, existed, and Hillenkoetter Xood why at would Menzel instead the next of

write such a meeting? thanking Menzel And why would letter, in person at the next MJ-12 Hillenkoetter instead of take time to simply

space'" if about recovered crashed ET craft? he had And why would Hillenkoetter flying "effectively put to rest all surmises both men saucers knew the Government had being tell Menzel that from 'outer

would he then resign that position? Board And if Hillenkoetter's membership was part of some "grand cover," why in NICAP's

"Roscoe," as in the MJ-12 papers?? traditional date MOST IMPORTANT: Why does letters using 12/Moore" format? And his initials (R.H.) format, instead of the "MJwhy does Hillenkoetter use a he sign his instead of

July 28, Philip J. Klass 1988

use the "MJ-12/Moore" format in writing the date. NOTE that Hillenkoetter does NOT

as "R.H." and NOT as "Roscoe" as NOTE that Hillenkoetter signs name and not "Admiral" as in MJ-12. refers to his rank as VICE Admiral in MJ-12 papers. Also, he correctly

3 Kingswood Road Weehavken, N. J. 14 December, 1970

Mr. Wolfgang Nagel Weinbergweg 57 7 Stuttgart 80 (Valhingen) West Cormany

Dear Kr. Nagel:

In reply to the questions in your letter of 8 December, I never stated that the unknown objects were operating under intelligent control. I did say that UFO's should be investigated to try to find out if they existed, and if so where they came from.

As fer as I know, UFO's are not of extra-terrestrial origin for the following reasons:

- For at least 25 years, there have been no completely authenticated sighting of such craft - nothing like, for example, seeing a 747 on a runway or in the air, by numbers of people.
- (b) In a negative sense, also, in 25 years there has been no definite positive action by a UFD either of friendly or hostile nature. Suraly, if they exist, in all that time one or more would have made contact, again either friendly or hostile, with some part of the earth. The lack of such actions makes me believe that UPO's from outside the earth have not as yet visited here.

Neither the U.S. Air Force nor the Pentagon has issued any orders suppressing the truth about UFD's.

I have never heard of anyone who was in possession of UM fragments and as far as I know no such UFD fragments exist.

The conclusions as to the extra-terrestrial origin of UFD's are, in my belief, insufficient and unproven.

I know of no prominent scientist or officer advocating the extra-terrestrial origin of the UFD's in public.

full Note in Signale de Roscol For your information I am enclosing a copy of a letter received from Dr. Willis in California and my reply thereto. You may like to get in touch with him.

Very truly yours,

the write Comme Kindy R. N. Hillenkoetter

Vice Admiral, U.S.N. (Ret.)

Apr

Hower, Jr., Melas said he hoped that "friendly action" by the United States might bring about a resemption of negotiations between Britain and Greek Cypriots. (New York Times, March 17, 1956). On April 5, Melas conferred with Serretary of State John Foster Dulles. The New York Times reported that the United States was trying to work behind the scenes to "sooth British and Greek feelings" so that negotiations could be resumed.

Molas elder brother Loon Melas became Grock Ambassador to Britain in 1947. A cousin of the brothers, Michael Melas has been Greek Ambassador to Egypt since 1952. George V. Melas was married on November 22, 1925 to utila Michael Salvago, a member of a prominent farmily whose wealth stems from cotton in Nexandria, Egypt. The Washington Post and Times Herald reported that Mme. Melas is securify and takes a keen interest in affairs of the Sie represented the Greek Federation of Novem's Clubs at the General Federation of Novem's Clubs meeting in Philadelphia in 1955, and spoke in behalf of the right of self-iertramation for the people of Cyprus.

of the Greek Liberal political party. The handly religion is Greek Orthodox. There are two sons, Leon Victor and Michael.

MENZEL, DONALD H(OWARD) (měnzel) Apr. 11, 1901 - Astronomer; educator didires: b. Harvard College Observatory, Harvard University, Cambridge 38, Mass.; h. 32 Hubbard Pk., Cambridge 38, Mass.

The director of the Harvard College Observatory at Cambridge, Massachusetts is Dr. Donald H. Menzel, who was appointed in January 1954, after having served as acting director state the retirement of Harlow Shapley in September 1952. He has been a member of the Harvard University faculty since 1932 and processor of astrophysics since 1938, and was chairman of the astronomy department from 1946 to 1949. Long recognized as a leading authority on the solar chromosphere, Dr. Menzel in collaboration with J. C. Boyce had established in 1933 the presence of oxygen in the sun's corona, and with Winfield W. Salisbury he made in 1941 the initial calculations which led to the first radio contact with the moon in 1946.

Menzel's theory, first advanced in 1952, that

Menzel's theory, first advanced in 1952, that sine so-called "flying saucers" are in most instances optical phenomena akin to mirages, is set forth in his book Flying Saucers (1953). He is also the author of Stars and Plands (1931) and Our Sun (1949), for laymen readers, as well as of technical books in the field of physics. In addition to directing the observatory at Cambridge, he also has authority over the university's George R. Agassiz Station at Harward, Massachusetts; the high-altitude observations of Climax, Colorado; a research station at Sacramento Peak, New Mexico; and two stations for the observation of meteors near Las Cruces in New Mexico.

ence, Colorado on April 11, 1901. He was a seventeen-year-old undergraduate at the University of Denver when (as he has recorded in the dedication to Stars and Planets) he was "inspired" by the "statesman, lawyer and student of nature" C. Edgar Kettering "with the desire to know more about the wonders of the heavens."

Menzel, too young for active World War I service, was a corporal in the Reserve Officers Training Corps. He majored in mathematics and was appointed to an instructorship in his senior year.

On graduation with the A.B. degree in 1920, he taught mathematics in the Denver public schools. A year later, having received his M.A. degree in mathematics from the University of Denver, he went to Princeton University in New Jersey to work for the Ph.D. degree in astronomy, which he acquired in 1924. He taught at Princeton while holding a Thaw fellowship in astronomy; he also received a fellowship at Princeton in 1923-24.

Dr. Menzel's first connection with the Harvard College Observatory was made in 1922, the first summer in which he worked there as an assistant and carried on much of the research for his doctoral thesis, A Study of Line Intensities in Stellar Spectra (Harvard Observatory Circular 258, 1924).

After one year (1924-25) at the University of Iowa as an instructor in astronomy, Dr. Menzel held an assistant professorship at Ohio State University before being engaged in 1926 as an assistant astronomer at the Lick Observatory at Mt. Hamilton, California. While occupying this new position he received from the New York Academy of Science the first of the A. Cressy Morrison prizes to be annually awarded for the best research paper on the source of solar and stellar energy. (He won the Morrison award again in 1928 and in 1949.)

During his six years with the Lick Observatory Menzel was a member of the Crocker solar eclipse expeditions in California in 1930 and in Maine in 1932. The observations recorded by Lick in the eclipse expeditions of 1900, 1905 and 1908, were discussed in Menzel's monograph A Study of the Solar Chromosphere (Lick Observatory Publications XVII, part 1, 1931). Also in 1931 the University Society published at New York (for subscribers only) Dr. Menzel's earliest book for the hyman, Stars and Planets: Exploring the Universe (trade edition, 1935; complete revision, 1938).

Having joined the Harvard faculty on September 1, 1932 as an assistant professor of astronomy, Menzel collaborated with J. C. Boyce of the Massachusetts Institute of Technology on analyses which led to the announcement, on October 24, 1933, of their discovery that "the composition of the sun's corona . . . consists in part, at least, of oxygen." Commenting in the New York Times, Waldemar Kaempffert referred to Menzel as "a leader in astrophysical teaching and research in America" and to the discovery as having "given a tremendous impetus to solar research."

versity of Michigan and announced in May 1934, was that of the presence of neon and "double-ionized" oxygen in "certain very hot ... stars" in Orion. In the following year Menzel began at Harvard, the investigations which (stated Harlow Shapley) "eventually led to the development of America's first coronograph"

Menzel was advanced to associate professor of astrophysics in 1935, led the Harvard-M.I.T. joint solar eclipse expedition to Siberia in 1936. In 1936 he also began a four-year editorship of the periodical *Telescope*. (He has been a member of the board of editors of its successor, *Sky and Telescope*, since 1940.)

By 1940 Menzel, who had been made a full

by 1940 Menzet, who had been made a full professor of astrophysics in 1938, had prepared an observatory especially for solar observing at an altitude of more than two miles and moved Harvard's original coronograph to this observation post where the sun's corona could be studied without benefit of colipse! This observatory, operated jointly by Harvard and the University of Colorado, is located on Fremont Pass, Climax, Colorado.

Early in World War II he made a study of

Early in World War II he made a study of radar waves with a view to discovering "a way that warships at sea might conduct radio communications without the danger of the enemy intercepting the message" (David Dietz in the New York World-Telegram, March 25, 1947). It was in the course of this study that Menzel and Winfield W. Salisbury of the Collins Radio Company made in 1941 "the first calculations to show that radio contact with the moon was feasible."

Commissioned a lieutenant commander in the U.S. Naval Reserve in 1942, Professor Menzel took a leave of absence from the university in 1943 to go on active duty. He was still in service in July 1945 when he directed the Anglo-American solar eclipse expedition to Saskatchewan, Canada.

When he was demobilized in the rank of commander in 1946, Menzel, returned to Harvard to reoccupy his chair in astrophysics and to hold for the next three years the chairmanship of the astronomy department. In 1947 he became editor of the Prentice-Hall Physics Series. His manual Theoretical Physics, resisted in 1953 as Mathematical Physics, was first published by Prentice-Hall in 1947, and was followed in 1948 by his Elementary Manual of Rudio Propagation.

In 1947 Menzel was named associate director of the Climax, Colorado observatory, where a motion picture of the sun, the first of its kind ever taken, was made. Exhibited at Cornell University in October 1948, the film "revealed motions that . . . defy the laws of gravitation and all the known laws of thermodynamics."

A year later another motion picture taken at

A year later another motion picture taken at the Climax observatory and shown to the American Association for the Advancement of Science, recorded a "solar rainstorm" of "fiery gases" falling "from heights of more than 50,000 miles on the solar 'aimosphere'" (Herhert B. Nichols in the Christian Science Monitor, December 29, 1949).



Harrard Univ. News Office Walter R. Fleischer DONALD H. MENZEL

y written by Professor Menzel for the Harvard Books on Astronomy Series, covered the most recent developments in regard to solar chemistry, sunspots, and eclipses. In April 1950 Menzel outlined a new theory that sunspots are probably "sinks" for the "vast quantity of matter raining upon the solar surface," and in June the "suggested the seeming paradox that ice ages might be caused by the passage of the solar system through a dark nebula" (New York World-Telegram, June 3, 1950).

In Sky and Telescope (June 1951) Menzel

In Sky and Telescope (June 1951) Menzel revealed that Harvard was building new highaltitude observatories at Chalk Mountain in Colorado and at Sacramento Peak near Alamogordo in New Mexico, each with a new and improved coronograph, the Chalk Mountain instrument being supplied by the Office of Naval Research and the Sacramento Peak post having the financial support of the Air Force. Motion pictures taken at Climax led Menzel in May 1952 to attribute appearances of the aurora borealis to "immense clouds of gas from the sun" breaking through "the earth's protective mautle" of magnetism.

mantle" of magnetism.

In the June 17, 1952 issue of Look, he presented his interpretation of most of the bona fide reports of "flying saucers" as due, not to hallucination, but to "natural optical phenomena" produced by atmospheric and other distortions of material objects ranging from weather halloons to bits of wind-borne newspaper. Menzel referred to them as "real as a rainbow, and no more dangerous" in his book Flying Saucers (Harvard University Press, 1953), which traces "saucer" manifestations back through the California "winged cigar" scare of 1897 to medical, classical and even Biblical times.

With the retirement of Harlow Shapley in September 1952, Donald Menzel became the

MENZEL, DONALD H.—Continued

CARCEL DIC

atory, and was given permanent appointment as director on January 14, 1954. (He is the observatory's sixth director since its establishment in 1839.) In June 1954 Menzel and other Harvard astronomers viewed a total eclipse of the sun from a stratocruser flying at 20,000 feet over Minnesota, and not only took photographs through a polarized lens but used a "cinemaspectroscope" to take full-color motion pictures. At a meeting of the American Astronomical Society on July 12, 1954 Menzel and Fred L. Whipple (chairman of the astronomy department at Harvard) reported their belief that the planet Venus, hitherto thought to have little or no water, may be covered by oceans.

Menzel is a frequent contributor to scientific periodicals. He belongs to the Philosophical Society, American Astronomical Society (former councillor and vice-president), American Association of Variable Star Observers, American Association of Variable Star Observers, American Academy of Arts and Sciences, Royal Astronomical Society, American Physics Society, and International Astronomical Union, among other associations. He was president of the Harvard chapter of his fraternity, Sigma Xi (1941-42). Donald H. Menzel and Florence Elizabeth Kreager were married on June 17, 1926. They have two daughters, Suzanne Kay and Elizabeth Ina.

References

Look 16:35+ Je 17 '52 pors

N Y Times p16 Ja 15 '54

Sky & Tel 13:143+ Mr '54 por

Time 59:54+ Je 9 '52 por

American Men of Science (1955)

Who Knows—and What (1954)

Who's Who in America, 1954-55

World Biography (1954)

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February 15, 1985

University Archives

Mr. Stanton Friedman 79 Pembroke Crescent Fredericton, New Brunswick CANADA E3B 2V1

Dear Mr. Friedman:

We are in receipt of your request of January 31. I would like to amend my letter to you of February 1. To obtain written permission to view and/or photocopy Professor Menzel's papers as director of the Harvard College Observatory and papers relating to the High Altitude Observatory, please contact:

Professor Irwin Shapiro
Harvard College Observatory
60 Garden Street - P-209
Cambridge, Massachusetts 02138

For permission regarding correspondence and records of Professor Menzel as chairman of the Department of Astronomy, please contact:

Professor William Press
Harvard College Observatory
60 Garden Street - P-235
Cambridge, Massachusetts 02138

Please do not hesitate to contact us if we can be of further assistance.

Sincerely yours,

Charles Schille

Curatorial Assistant

Harvard University Archives

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SECLASSIFIED INFO: Cal Persy this Beedquarters and Cal O'Bara ATIC will be evailable 2000 AM 22 Got Been 44932, Festagen, to discuss your problem. I am surry my schooling could not permit me to join in the discussion. JOHN A BANFORD Maj Con, USAY Director of Intelligence Hq, BEAF SECURITY CLASSIFICATION PAGE 1 OF 1 DRAFTER'S NAME (and signature, when required) RELEASING OFFICER'S SIGNATURE Lt Col William E. Smith EARL R. JOHNSON SYMBOL 71092 AFGIR OFFICIAL TITLE

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69-16-66928-4 U. S. GOVERNMENT PRINTING OFFICE

October 16, 1953

Major General John A. Samford ATIC Dayton, Ohio

Dear General Samford:

ga spanjen filozofern

I am planning to be in Washington on government business Thursday and Friday, October 22 and 23. I plan to arrive at Washington airport at 4:04 P. M. Wednesday, October 21. From various reports I judge that some of my explanations of flying saucers have either been misinterpreted or misunderstood. I regret that I cannot get to Washington earlier on Wednesday but if it is possible to do so I should like to talk with you then or if you prefer later on during the evening. I shall also be available Thursday. I should be delighted to meet with as many members of ATIC as find it convenient to come.

I should appreciate having a wire to confirm this conference. I shall plan to take a taxi immediately from the airport to the Pentagon.

Very truly yours,

Donald H. Menzel Acting Director

cc: Maj. General John A. Samford Project Bluebook Pentagon Building Washington, D.C. Lt. Edward J. Ruppelt. Col. Frank L. Dunn

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Harvard Callege Observatory Cambridge 38, mass.

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De C Corres Files,—

1947-53

STANTON T. FRIEDMAN **NUCLEAR PHYSICIST - LECTURER**

79 PEMBROKE CRESCENT FREDERICTON, NEW BRUNSWICK E3B 2VI **CANADA**

(506) 457-0232

Mr. James Moselev Box 1709 Key West, FL 33041

Feb. 28, 11989

Dear Jim:

I received your Confidential Post card today and am frankly mystified . It doesn't seem to bother you at all to have published a libelous statement about me that apparently has no basis beyond what you may have supplied in the way of information to Mrs. Menzel. Unfortunately you apparently did not read my IUR paper about Menzel, and did not send it to her. What was the origin of her opinion?

You probably don't know that I madea promise to a former associate of Menzel who knows Florence well and to Florence's daughter NOT to bother Mrs. Menzel though I sent inform tion to both of them. Then I turn around and find defama tion from Mrs. Menzel whom I had no intention of bothering.. she is pretty old you know and obviously knew nothing about Menzel's classified activities. The associate knew a very great deal and was very much spookedby my questions. .. even making statements about not knowing what had been declassified.

Also it is still not clear to me whether you spoke with Mrs. Menzel by phone or had a letter from her. It seems to me that if you want her opinion about me and my conclusion than you have an obligation to fully inform her of my research, background, etc. Her comments clearly show she knew nothing or next to nothing about either.

I have no idea what Chris Allen said but cannot find any reason to drop my conclusion that Menzel belonged in the MJ-12 group, and that none of us on the outside knew that until mv research. Do you really believe no spies, murderers, agents have fooled that until my research...Do their spouses and friends???

I strongly disagree about the PICA-elite controversy. Klass has made a widely publicized accusation based on totally inept research. It makes it possible to judge the quality of his work. He was totally and completely wrong. There was no basis for his conclusions as there has not been for any of his others. The impression left by not publicing my findings about his research is that he has done serious research which casts serious doubt on my indications that to date no argument against MJ-12 has stood up to careful scrutiny. The fact of the matter is that none of his research about MJ-12 has been careful, scholarly, adequate or accurate. 9pages of 260,000

I don't doubt that you can't believe that the documents are real. About 5% of the US doesn't believe man has been to the moon .. all staged in the desert for TV.I really wish I understood such strong prejudices substituting for review of evidence. It is as forlorn as Mrs. Menzel's thinking that she had done me dirt by not telling me in what Library Don's/papers were when I had already been there several times and had said so in print in my detailed study of his possible involvement.

Jim, I would very much like copies of your correspondence with Mrs. Menzel if correspondence ence it was vs. telephone contact. Did she initiate the contact or you?What did you send her (my 3 IUR papers or none of them??) Her comment about after the death of all 1 is another good example of not having any knowledge. Surely you owed me the decency of editorially pointing out that I had written the name of the American Philo. Lib and that the documents weren't released until AFTER all 12 had died. I guess I can summarize by saying I believe I am owed an apology. So far as I can tell I have spent far more time than anybody else on MJ-12. I don't deserve baseless cheap shots. Stan

Science Consultant • Lecturer • Author • Broadcaster

Feb. 20th, 1989

Dear Uncle Stan:

Thanks for sending me the further Menzel material etc. Of course I was very careful to quote Mrs. Menzel's remarks about you accurately. I guess she was not aware that you found her late husband's UFO material. I still believe, as Chris Allan said recently, that including Menzel in the list of 12 MJ guys is the ultimate cosmic joke to get even with him for his UFO books & views. At this point I could never believe the documents are real. You ask if I'm afraid to publish Klass's letter to you re the elite vs. pica controversy. No, I'm not afraid, but (as I've told Phil) you two are arguing about how many angels can dance on the head of a pin. You are getting nowhere. Come in out of the cold & take a gander at Gulf Breeze! At

least it is more current, warmer, & has SOME chance of authenticity. Regards, etc.,

Mrs. Donald Menzel 1010 Memorial Drive Cambridge, Massachusetts 02139 USA

February 14, 11989

Dear Mrs. Menzel:

I was shocked indeed and quite dismayed to read the comments attributed to you in the lastest issue of Saucer Smear (Copy enclosed). and have several questions:

- 1. Are the quotes accurate? Having been misquoted many times I have a distrust for 2nd hand comments.
- 2. If the quotes are accurate, what possible basis could you have for referring to me as a "nut"? I have a very strong and impressive professional history.
- 3. Have you really become informed about Majestic 12? It appears that you have NOT read my article "The secret life of Donald H. Nenzel" (copy enclosed). I state explicity in the article that I didn't talk to you about UFOs and that I was well aware that Donald 's UFO correspondence was at the American Philosophical Society Library. I have visited there several times.
- 4. You certainly indicated to me that Donald didn't talk about his classified work with you, and apparently indicated the same thing to Jim Moseley. It seems to me that it is an insult to Donald to suggest that he wasn't discrete enough to keep to himself extraordinarily important classified secrets. I worked on classified programs for almost 15 years and do have a professional understanding of such matters based upon full time involvement. One simply does NOT put one's family at risk.
- raking up this business after they are all dead is beyond the question of honesty". The roll of film which had the Briefing Document for Ike dealing with MJ-12 was only received in December 1984, about 3 months after the last surviving member of MJ-12 research earlier. In addition I should note that only 5 of the 12 were scientists (Bush people. My investigations have clearly established close and often surprising ties amongs MJ-12 if you or anyone else can point them out. Perhaps you are unaware of the extent Roswell, New Mexico, in July of 1947. We have talked to 94 persons in conjunction with the receipt of the MJ-12 document. Perhaps you have a record of Donald's activities that year work ona project for Engineering Research Associates (of Minnesota) to a highly classified
- 6. I fully recognize the difficulty in acceptance of people close to a person of sudden knowed dge of that person's secret activities.. whether espionage, counterintelligence, assasination, child molestation, humosexuality, etc. Surely that is no reason for defaming the messenger. Donald's involvement in MJ-12(if real) is something to be proud of.
- 7. I hope you will reconsider your comments and provide an apology or retraction. As you will note in my article, my findings greatly increased my respect for Donald.

 Stant'

AstroListings

- 8 November: The Sky at Night on BBC1 rpt 14 Nov on BBC2.
- 9-13 November: Public viewing of Mars at Toathill Observatory 7.30-10pm, adults £1, children 50p. Details from Ken Medway, Solent Amateur Astronomers, 443 Burgess Road, Southampton, Hants.
- 12 November: Southampton AS, the Committee Room, Civic Centre, 7.30-11pm with an astronomy artist. Details from Michael Hobbs, Tel: (0703) 776680
- November: Royal Observatory, Blackford Hill, Edinburgh, EH9 3HJ, 7.30pm Super-Explosions in Astronomy" by Dr Paul Murdin. Tickets £1.50 adults and 75p concs from the Visitor's Centre Tel: (031) 668 8405.
- Bristol AS meeting at the University Physics Dept. "William Herschel" by Ian Welland. Details from Ron Sparrow Tel: (0272) 241227.
- 14-15 November: UK-SEDS conference at the University of Kent, Canterbury. Details from UK-SEDS, The Space Education Trust, c/o The Royal Aeronautical Society, 4 Hamilton Place, London W1V OBQ.
- 14 November: JAS meeting at the London Planetarium, 10.30am.
- CESAR colloquim, Bishop Otter College, Chichester, 10am. Speakers includer Dr Peter Cattermole, Dr Andrew Coates, Prof J Peter Muller and Dr Seymour Laxon. Tickets £4. Details from John Green. Tel: (0243) 829868.
- 19 November: BASS *Lesser known astronomers at BASS* by Ken Marcus. Contact Terri Fearn. Tel: (0273) 581553.
- Torbay ASO meeting at Hele Village Community Centre. "The Christmas Star" by Donald Robinson.
- 20 November: Crawley AS.
 "Aurorae" by Neil Bone.
 Contact Dave Roberts Tel: (0293) 525865.
- Equinox on the Discovery Channel 8pm: *Earth calling Basingstoke".
- Liverpool AS, City Museum, William Brown St. Liverpool 3 7-9pm Talk by Paul Money. Details from Mr K. Clark, 31 Sandymount Drive, Wallasey L45 OLJ. Please send SAE.
- Bristol AS "The AAT: astronomy down under" by Jane Neilson. Details as 13 Nov.
- 21 November: Reading AS, St Peter's Church Hall, Church

KEY MOMENTS IN ASTRONOMY

The curious case of Donald Menzel

One of America's best known astronomers died at the age of 75 in December eighteen years ago.

Donald Menzel, Paine Professor of Astronomy at Harvard, died on 14 December 1976. He is probably best remembered for the Whipple-Menzel theory (1954) which asserted that Venus was completely covered with water. Menzel was famously intolerant, prone to vendettas against those he disagreed with.

Menzel led a double life. The crusty astronomer was a highranking agent of the National Security Agency, America's most secret intelligence organisation. He used his position to blacken the reputations and damage the careers of scientific opponents, produced take research supporting his masters, betrayed his president and was suspected of treason.

Documents released by Harvard reveal Menzel joined US Intelligence in 1930, prior to a meteoric promotion from menial status at the Lick Observatory to an associate professorship. In 1941 he was openly acknowledged as a Commander in Naval Intelligence, a position held for many years after his normal retirement. In 1950 Menzel appeared before a secret court to face charges of disloyalty and abuse of authority. The case was not proven.

The early 1950s saw the zenith of the UFO scare. The US Air Force took the problem seriously - the sudden appearance of Russia's Mig 15 showed unknown aircrast posed a threat. The navy, fighting to retain control over their aircraft carriers, were desperate to reduce USAF prestige. Menzel, paid enormous sums through naval and NSA sponsored 'consultancies', authored highly publicised books asserting UFOs were misidentified natural phenomena. He consistently misrepresented cases to discredit Air Force investigators.

Menzel's public abuse provoked a summons to the Pentagon and a stern reprimand. Out of favour with Eisenhower's government, he bided his time. The seediest period of his career began in 1960. Menzel - still a serving officer - offered to supply presidential candidate John F. Kennedy with secret data on intelligence activity under Ike's administration.

Curiously enough Kennedy joined the Board of Overseers at Harvard and chose astronomy as his special field. Menzel's career bloomed. The files now reveal a sordid stack of letters to JFK, abusing rivals and supposed friends, and urging positions of authority be given to the selfless Menzel. Many were.

Menzel was a good astronomer, yet he sacrificed honour as a scientist to political paymasters. lan Seymour

Road, Earley, Reading from 7 to 9.45pm. "Meteor Showers" by Professor Iwan Williams. Tel: Mrs Muriel Wrigley Tel: (0734) 262180.

- 25 November: BAA meeting at Scientific Societies Lecture Theatre, Savile Row, London 5pm. Tel: (071) 734 4145.
- 26 November: Orpington AS. "Fireballs & meteorite recovery" by John Mason. Tel: Lyulp Lubbock: (0689) 862860.
- November: Royal Observatory, Edinburgh "The

night sky in December*.

- Details as 13 Nov.

 "Open Night" at the Mills
 Observatory, Balgay Park,
 Dundee. "Christinas presents
 for Skygazers at 7.30pm. Viewing with the observatory's telescopes if weather permits: othewise planetarium show Admission free. Tel: (0382) 67138.
- Giotto: a close encounter of the second kind" 10.30pm second chance to see the July rendez vous on the Discovery Channel. Rpt 4pm on 29 Nov.
- Newbury Amateur AS, United Reform Church Hall, off West

Street, Newbury, 7,30pm. "From Imaging to Imagining" by Chris Baddily, Details from Ann Davies Tel: (0635) 30598.

- November: Scottish Astronomers's Group Autumn meeting, Hillhead Library, 348 Byers Road, Glasgow, 1pm. Details from Brian Kelly, Mills Observatory, Balgay Park, Dundee, Tel: (0382) 67138
- 30 Nov 5 Dec: Christmas doublu bill at the London Planet arium. "Sir Isaac Newton pays a visit" and "The Earth's place in the Universe". Schools programme in the mornings open to public in the afternoons. Tel: (071) 486 1121.
- 1 December: Film, slide and video evening at Wessex AS 7.30pm at the Allendale Centre, Wimborne, Dorset. Details from Bob Mizon, chairman, 38 The Vineries, Colehill,
- Wimborne, Dorset BH21 2PX.
 Maidstone AS. *Atmospheric
 Phenomena* by Neil Bone. Contact Mr E. Knagg Tel: (0622) 685219.
- 3 December: Prof Roger Taylor "Understanding the Universe" at BASS. Contact Terri Fearn Tel: (0273) 581553.
- December: Bristol AS, Physics Dept, Bristol University, 7.15pm. "Supernovae" by Dr Gill Pearce.
- Crawley AS visit to Ifield by Maidstone AS.
- Dundee AS meet at Mills Observatory 7.30pm. "The search for gravitational waves" by Prof J Hough, Glasgow University. Details from Mrs C Jenkins, 4 Speed St, Dundee.
- 9 December: "Eclipses Special" at the Mills Observatory. Balgay Park, Dundee. Talks and planetarium shows all evening about the total eclipse of the Moon; viewing weather permitting from 10pm onwards. Admission free. Tel: (0382) 67138.
- The Batley and Spenborough Astronomical Society open night and public viewing at their newly opened observato-ry at William Park from 7.30-9pm. Details from Robert Morton (secretary) 22 Links Cleckheaton, W. Yorks, BD19 4EG.
- 10 December: Southampton AS, the Committee Room, Civic Centre, Southampton 7.30-11pm. Annual video show. Details from Michael Hobbs Tel: (0703) 776680.
- 2 December: NASS'92 at Sutton Coldfield town hall. Details NASS '92, 26 Matlock Road, Lower Farm Estate, Bloxwich, Walsall, WS3 3QD.