In search of physics majors?

This seventeenth century woodcutting shows a man who has traveled to the edge of the earth to study the celestial mechanics. Shown are the Epicycles and Deferents of the Ptolemaic system. Although the problem is formulated somewhat differently today, we are still concerned with celestial mechanics.

Hi, welcome to the first Physics newsletter. Listed below are the activities and addresses of our physics faculty, students, and alumni. I have been reading through the responses, and am amazed by the versatility and success of our alumni. We cover most fields of physics, and many related fields.

There is an asterisk beside the name of those people interested in corresponding with our present majors.

The physics department is presently enlarging and updating our machine shop, electronics course, and optics laboratory. We would like to contact firms or people who are interested in donating funds or equipment (either new or used) for these purposes. If you know of any possible donors, we would appreciate hearing about them.

We hope this newsletter facilitates communication between our alumni, students and the physics department. If you have any suggestions, we would be happy to hear from you. Or if you are in the area, stop by.

Mr. B. R. Russell
906 N. Bever
Wooster, Ohio 44691

My main concerns recently (aside from the entropy crisis, and inflation) have been in two general areas:

1) statistical mechanics, particularly the relation of information to entropy, and in attempts to obtain a clearer understanding of the aspects of the physical models which correspond to entropy and temperature;

2) quantum mechanics, especially in the interpretation of the uncertainty principle, the connections between relativity and quantum mechanics, and in a sort of "metaphysics" to make the methods of wave mechanics seem more plausible to the beginning students.

Mr. David L. Elwell
938 N. Bever
Wooster, Ohio 44691

Under the new modular requirement, Dick Osgood and I are teaching a two course sequence, "Energy and Mineral Resources." This is "science for non-science students," but it is proving to be both interesting and challenging. There is a vast amount of information becoming available in this area and it is very hard to keep up with even a small fraction of it. In spite of this, we do seem to be making some coherent sense in elucidating the problems involved and the various approaches to potential solutions to these problems. Thus, we are finding this to be a rewarding experience.

Mr. David L. Elwell
continued

Beyond this, my teaching is in standard areas of physics except for the Freshman Colloquium that I taught this Fall. This latter involved a canoeing expedition into the Adirondacks and is the subject of an article published in the Alumni Magazine.

Finally, I have written a paper entitled, "Superluminal Symmetries: An Interpretation of Charge Conservation" that has been accepted for publication by Foundations of Physics, and I would be happy to send a copy of this paper to any one that might be interested in reading it.

Mr. William Trimmer
666 Winkler Drive #3
Wooster, Ohio 44691

I received my degree from Wesleyan University in Connecticut in 1972. My thesis was an experimental research for certain types of anisotropies in the speed of light. (If there are such anisotropies they are less than a part in 10^{10}.) After graduation I began teaching at The College of Wooster.

My first summer at The College of Wooster I built an apparatus to measure shadowbands at the June 1974 Australian eclipse. Sandia Laboratories transported the apparatus to Australia and Dr. Jacques Beckers kindly oriented the apparatus and turned it on before the eclipse. Unfortunately it was cloudy during totality. Last summer I worked at The National Bureau of Standards in Washington, D.C. I did some preliminary spade work for a new absolute ampere experiment N.B.S. is planning to perform. This was fascinating work. This summer I will be working for my consulting firm, Accon Incorporated. Initially I planned to do consulting work in electronics, optics, and

Mr. William Trimmer
continued

mechanical design for local companies. However, since it was started the consulting firm has gotten into several interesting new areas such as the magnetic properties of materials. During the school year I have been busy developing a new course in Astronomy, we now have two 8 inch reflecting telescopes, and a new course in electronics. This following summer I also plan to add a new section on CMOS logic to the electronics course, and to develop several aspects of the optics course.

STUDENTS

Charlotte Gritzinger
College of Wooster
Wooster, Ohio 44691

The effects of various gas mixtures on the operating characteristics of tissue equivalent proportional counters.*

Neutron irradiation may be more effective against tumors than the conventional forms of radiotherapy. For this reason, experimental research is being done to characterize the biological effects of neutrons in tissue.

Linear energy transfer (LET) can be used to measure biological effect. LET is determined through the use of proportional counters. In order for the neutrons to have the same LET in the counter as in an equivalent volume of tissue, the counter walls and the counting gas must be made tissue equivalent (TE).

To be tissue equivalent to neutrons a material must have the same proportions of hydrogen, carbon, nitrogen and oxygen as tissue. A common tissue equivalent material, for the counter walls, is shonka also plastic. Several types of TE gas have been developed.

This research involved characterizing the counting properties of a TE gas mixture composed chiefly of methane and then comparing these characteristics to those of a propane TE gas mixture. Theoretical work was done to develop a TE mixture using cyclopropane.

*Research sponsored by the U.S. Atomic Energy Commission under contract with Union Carbide Corporation. Research done in the Health Physics Division, Oak Ridge National Laboratory, under the supervision of John W. Poston.

Tom McCune
The College of Wooster
Wooster, Ohio 44691

My I.S. is involved with the use of nonfocusing solar heat collectors for space heating. I am presently working on a theoretical study of collector performance with the plans of combining this with information about heating loads, storage types, and weather conditions to produce a general description of a solar heating system. Along with this I am building and testing a collector to determine its efficiency and trying different methods to improve this efficiency.

Paul Stauffer
The College of Wooster
Wooster, Ohio 44691

My Senior I.S. Project is a determination of the velocity of light. Novelties of my experiment include use of a light emitting diode, an oscillating crystal of frequency 8 MHz, and a phase sensitive detector, built from a CosMos Logic Chip CD4016A. Basically, I run a reference signal from my oscillating "clock" to the phase sensitive detector and compare the phase with the signal which traveled from the L.E.D. to a mirror and back, collected in a photo-multiplier tube and then into the phase detector. By determining the phase delay and path length of the light, a wavelength can be calculated for the known frequency and thus the speed of light can be determined electronically.

My plans for after graduation from Wooster are as yet unsure. I have applied to one graduate school (Utah) in a semi-conductor research program, but may delay my graduate study for one year in order to check out the job market and obtain a little working capital.

Brent Warner
The College of Wooster
Wooster, Ohio 44691

The subject of my I.S. is astronomical seeing of the limb of the sun. "Seeing" means the random variations in the sun's image caused when sunlight passes through turbulent air. (Scintillation is a more impressive sounding word which is usually used for one part of the seeing.) To be more specific, I plan to measure the frequencies present in seeing.

Here is the outline of the project which isn't complete. A Newtonian reflector focuses the sun onto a photomultiplier tube, the output of which is recorded. A wave analyzer is then set to one of the desired frequencies, and the tape played through it. An integrator circuit across the meter records total meter deflection, and then the total amount of that frequency present. Measuring at several frequencies gives the spectrum, which according to the literature, has greatest amplitude near zero H_2, dropping low by 500 Hz. It should work, I hope.

ALUMNI

* Dr. John H. Atkinson, Jr.
P.O. Box 125
Laguna Beach, Ca. 92652

I am a consulting physicist, a photographer and an inventor. This week I am working on an application of solar power to secondary oil recovery.

* Mr. Richard Bagge
73 Old Lancaster Rd.
Devon, Pa. 19333

I am (and have been since I graduated in spring 1973) Chief Engineer for WYSP FM, a stereo rock'n roll radio station in Philly. I'm not getting rich, but I'm having a good time and learning lots!

Mr. H. Leroy Barger
923 Beall Avenue
Wooster, Ohio 44691

Ten years teaching physical science at 8th grade level in Orrville, Ohio. Supervisor of physical science department.

Mr. James A. Bishop
2265 Palm Tree Drive
Punta Gorda, Florida 33950

I am a retired sales official. Never used my Physics major but enjoyed every course.

Mr. James R. Bode
2275 Hill Street
Lima, Ohio 45804

I took my Ph.D. in Philosophy - currently Asst. Prof. Philosophy at O.S.U. - Lima. My activities which are in any way connected with Physics are confined to my current project of building a minicompter using Intel 8008 microprocessor and surplus 1101 RAM units for memory.

* Mr. Robert P. Borland II
Box 243, R.D. 1
West Sunbury, Pa. 16061

Vocation: High School Physics Teacher; advocation: farming and house building.

Mr. Gerald R. Calkin
923 Vickers Village
Richmond, Ky. 40475

Since getting his M.S. in Physics from Ohio University (Feb. 74) Jerry taught for a semester and summer session (physics) at the University of Hartford (Hartford, Conn). Since he also wanted to coach gymnastics he wrote to many colleges to see if he could teach physics and coach gymnastics and none were interested in the combination. So he taught physics and coached gymnastics in a high school on Cape Cod for 3 years. Then Jerry decided he wanted to coach gymnastics in college so he went to the University of Massachusetts for 5 years, getting a M.S. in Physical Education and a Ph.D. in Human Movement. He was able to use his physics with his branch of physical education. It was really amazing.

Mr. Ralph J. Donaldson, Jr.
36 Indian Ridge Road
Sudbury, Massachusetts 01776

Meterological research, employed by U.S. Air Force Cambridge Research Labs. Specializing in study of tornadoes and severe thunderstorms using Doppler radar.

* Mr. Edward C. Douglas
2 Worchester Lane
Princeton Junction, New Jersey 08550

After graduating in June 1969 with a doctorate from the Electrical Engineering Department of New York University, specializing there in low temperature solid state physics and electron paramagnetic resonance phenomina, I began working at the RCA David Sarnoff Research Laboratories here in Princeton, New Jersey. Since that time I have been working with a group in the Process and Materials Research Lab with an emphasis on "process", the "material" has been restricted completely to silicon. Activities consist mostly of developing new planar processes using photolithography and silicon technology. One of the first projects I worked on was the development of the silicon storage tube which has become the heart of the airport high speed x-ray display systems. I also worked on the tail-end of the effort which produced the silicon diode array vidicon, the over-load-proof pick-up tube that was used in the RCA version of the moon-landing TV system. More recently I've been working in the area of applying ion implantation to the fabrication of silicon planar devices. I supervise the operation of a 300 DeV atom accelerator which forms I.C. devices such as bipolar transistors and MOS transistors by shooting the impurity atoms like bullets into selected areas of the surface of silicon wafers. This is a new

device fabrication technique and it has been a great deal of fun playing with shiny new equipment and shiny new ways of building integrated circuit devices.

On a more personal note, a year and a half ago I acquired a wife, Betsy, and we have been busy with a new house on the outskirts of Princeton. Besides paying bills and cutting grass, a good deal of time is spent in the photographic darkroom or building furniture in the woodworking shop.

* Mr. J. Lawrence Dunlap
9016 E. Pine Valley Dr.
Tucson, Ariz. 85710

1) High School Physics Teacher 1962-1974
2) Education Director, Flandrau Planetarium, Univ. of Arizona (open fall 1975) 1974-present
3) Research Assistant, Lunar and Planetary Lab, Univ. of Arizona (Asteroids) 1966-present (part time and summers)
4) Past Chairman, Arizona Sect., American Assoc. Physics Teachers.

* Mr. John Eby
GTE Sylvania
100 Endicott St.
Danvers, Mass. 01923

Manager of Tests and Measurements group for Sylvania Lighting Division - photometric, radiometric, environmental, electrical and mechanical testing and specification of our products. Involved in design and construction of automated measurement systems and on-line computer processing of lab data. Member of U.S. national committee T.C. 1.2 of CIE, treasurer of Committee on Optimal Radiation Measurements.

* Mr. Jack Fanselow
2460 Tanoble Drive
Altadena, California 91001

Physicist at Cal Tech's Jet Propulsion Laboratory, Pasadena, engaged in geophysical research, attempting to measure variations in the earth's rotation rate, the position of its axis of rotation, and continental drift. We are using a radio astronomy technique known as VLBI (Very Long Baseline Interferometry). With refinement, measurements of intercontinental distances (fecters) with accuracies of a few centimeters should be possible (in 1978-1980).

Turning the technique around it is also possible to measure the positions of compact extragalactic radio sources with accuracies approaching 0.001°. Since these objects are so far away, there is no detectable proper motion. Thus, as an adjunct to this geophysical work, we are in the process of establishing a "fundamental, nearly time invariant" coordinate system which should be at least two orders of magnitude better than present systems based on optical observations.

Finally, other payoffs of this work should be the development of the capability to navigate interplanetary space craft with an order of magnitude more accuracy than now possible, as well as a considerable refinement in the orbits of the planets, the moon, and the earth.

Personal activities: Married (Peggy Byers, class of 1960 also), two sons (10 years and 8 years old). Active in Westminster Presbyterian Church, Pasadena. Dabbling in precinct political work (only as a worker - no aspirations). Taken up skiing (good skiing is only one hour away).

* Ms. Martha (Marcy) Froelich England
151 Wheeler St., Apt. 1-H
Akron, Ohio 44311

I am currently teaching physics and chemistry at Stow High. While I'm not well prepared for the chemistry, I do feel very adequately prepared for the physics, and I enjoy it immensely.

This past summer I wrote a lab manual for the course I teach. I felt none of the lab manuals available went at physics quite the way my students seem to understand it, and none of the available manuals made efficient use of the equipment already existing in Stow. I'm pretty happy with the resulting manual, and I'm in the process of getting it copyrighted at this time (<u>not</u> published - that's my job!). I have begun graduate work in physics at Akron U., the lab manual actually being written for credit. This fall I took the first in a sequence of three mechanics courses, which proved to be rather disappointing. I attribute the problems to my "over indulgence" in too many activities, and not the course - except for the difficulties in dredging up curls, divergences, differential equations, etc., from years gone by. I find with three preparations at school (algebra, also), my 'cello playing (in the Akron Symphony), and some haphazard 'piping with the local band, I just could not get the physics "all together". At this point in time, the teaching and symphony seem more important to me than an MS in physics, so I am abandoning the graduate work for the time being. Perhaps when Richard finishes his MS in June I will return full-time.

I hope this hasn't been too much like a therapy session! As a teacher, I feel frustration from the lack of feed-back I receive, and thus I guess I'm over zealous in attempting to give you feed-back.

* Mr. Roger W. France
1434 Sharon Green Drive
Columbus, Ohio 43229

Main Activity: Bridge. Occupation: Computer programmer for Defense Construction Supply Center.

* Mr. Donald J. Fluke
Department of Zoology
Duke University
Durham, N.C. 27706

Research and teaching in radiation biology and physical biology; chairman of department (Zoology); church and music activities.

* Mr. George A. Fryburg
34613 Center Ridge Road
North Ridgeville, Ohio 44039

Attending Graduate School at Case Western Reserve University School of Engineering, Department of Metallurgy and Materials Science.

* Mr. Robert H. Gould
1 Berkshire Dr.
Dryden, N.Y. 13053

Community college teaching and administration.

Mr. Clifford D. Hall
916 S. Ashland Avenue
La Grange, Illinois 60525

After Wooster graduation in 1937 spent 32 years with U.S. Weather Bureau, first as observer then for many years as forecaster. Retired 1970. Now employed by a semi-religious, semi-scientific organization that tries to relate the spiritual aspects of religion to the studies of parapsychology. (Ex Uno Fonte!) Former President Wishart was a member of Spiritual Frontiers Fellowship at the time of his death.

* Mr. Tom Hammer
1013 N. Madison St.
Wilmington, Dela. 19801

Presently teaching chemistry and physics to emotionally disturbed, above average I.Q. high school students in Phila. I'm thinking of graduate school in special education and am very interested in Biofeedback and Behavior Modification.

* Mr. Donald C. Haueisen
2415 Via Del Sur
Carrollton, Texas 75006

Finished Ph.D. in physics at Cornell in August, 1972. Now teaching undergraduate physics and astronomy at University of Dallas.

Mr. John S. Hayward
6272 Boughton Hill Road
Victor, New York 14564

Research Associate Research Laboratories - Physics Division Eastman Kodak Co., Kodak Park, Rochester, N.Y. 14650

Mr. James C. Hough
1318 Oak Avenue
Coshocton, Ohio 43812

Although I taught physics on the mission field in Brazil and in substitute teaching work in the states, I have been a minister in the United Methodist Church (including 11 years in mission work in Brazil) since 1940 when I graduated from seminary. Thank you kindly.

Professor Julian F. Johnson
Institute of Materials Science U-136
University of Connecticut
Storrs, Conn. 06268

Currently on sabbatic leave at: IBM Research, Bldg. 028, Dept. K 42/282, Monterey and Cottle Road, San Jose, California 95193.

* Mr. Curtis A. Jones
825 Graduate House East
West Lafayette, Indiana 47906

Was electrical engineer testing recording tape and heads for manufacturers. Now studying bubble dynamics in magnetic garnet films.

Mr. Joseph V. Kelly
1201 Truman Ct.
Waldorf, Md. 20601

Computer Systems Analyst, U.S. Navy.

* Mr. William C. Kerr
Department of Physics
Wake Forest University
Winston-Salem, North Carolina 27109

I am an assistant professor at Wake Forest. We have a master's degree program in the physics department, so normally I teach one graduate course (usually quantum mechanics) and one undergraduate course (usually general physics). In addition, I pursue research interests in the microscopic dynamical properties of liquids and solids. Currently, I am completing a paper on some properties of molten salts, and I have recently developed an interest in the dynamical mechanisms which cause solid state phase transitions. Since coming to Wake Forest in 1970, I

Mr. William C. Kerr
continued

have worked on these problems in the summer months at Argonne National Laboratory, Cornell University, and the Institute of Theoretical Physics of Chalmers Technical University in Gothenburg, Sweden.

My wife Sandria (nee Neidus), also of the class of 1962, is an associate professor of mathematics at Winston-Salem State University. We have two children, Tamara, 9, and Elizabeth, 5.

Mr. Tom Kirkman
Department of Physics
University of Wisconsin
Madison, Wisconsin 53706

First year graduate student at University of Wisconsin.

Mr. Klaus E. Kroner
69 Amherst Rd.
Leverett, Mass. 01054

For many years taught engineering drawing and descriptive geometry at university level, but now Associate Professor of Industrial Engineering at University of Massachusetts (Amherst). Also doing teaching and speaking on metric conversion in U.S.

Private activites include interest in promoting alternative energy sources - we have a wind generator on our garage. Family incorporated a business last spring to distribute information on alternative energy and to sell equipment for wind power and solar systems.

* Mr. Robert R. Lawrence
95 Lisa Lane
Lake Worth, Florida 33460

I think I would be a poor example of a Physics major as I was only in that field for some four years. Graduating midyear (Jan. '34), I did metallurgical testing in a Steel Mill.

As you know, times were not very rosy during those mid-30's and I drifted (actually) into Insurance. First, in Underwriting, later in Statistics, later in Sales and finally in Management where I remained for over 20 years. I retired in January, 1969, and have been dividing my time between Ohio (Englewood) and Florida (Lake Worth) except for traveling considerably by Airstream and two six week trips to the British Isles.

The Liberal Arts education certainly added to my enjoyment of the "good life" and my Physics major helped to improve my jobs, my thinking, my use of such things as materials, my love of the use of numbers and above all the lessons impressed upon us by Dean Westhofer.

Only those of us who benefitted from a Liberal Arts education can know its many benefits and I would recommend Wooster to a prospective student, a physics major or to anyone interested.

I failed to note I have been happily married for 36 years and have two daughters and one son scattered throughout the country.

Mr. Edward N. MacAllister
14451 Misty Meadow
Houston, Texas 77024

American Society of Lubrication Engineers, National Petroleum Refiners Association, President, Houston Philatelic Society; Elder - Central Presbyterian Church; Merit Badge Counselor - B.S.A.
Current Position - Account Executive, Exxon Company, U.S.A. - Wholesale Specialty Product Sales
Major Oil Companies
Wax resellers
Affiliate Sales

Dr. Thomas M. Magruder
298 Lenwood Drive
Sparks, Nevada 89431

Marriage and Family Counselor (nothing in physics for years)

* Mr. Jon Marshall
16856 Lanier Avenue
Strongsville, Ohio 44136

Teaching at Strongsville Senior High School: PSSC Physics; "Advanced Topics - Physics" (a third-semester follow-up to PSSC); "Everyday Physics" (a 9 week mini-course for "non-science majors"); Advanced Topics-Astronomy. "Introduction to Star-gazing" (a 9 week mini-course). I also serve as planetarium instructor/director for elementary-school classes in the system. Professional memberships: NEA - Life member; OEA - Life member; Strongsville E.A. -(past president) Great Lakes Planetarium Assoc.- charter member; International Society of Planetarium Educators - charter member; Cleveland Regional Assoc. of Planetarians - charter member.

* Mr. John E. Mayfield
5324 Forbes Avenue
Pittsburg, Pennsylvania 15217

Assistant Professor of Biology - Carnegie-Mellon University. Although no longer in physics, John Mayfield applies his physics background to his work in biology which is to study the structure of chromosomes. John's department at CMU is a new one devoted to molecular biology. The department is in search of graduate students and would, undoubtedly, welcome candidates from Wooster. Another Wooster graduate employed as Assistant Professor is Bill Brown, a chemistry major, class of 1967.

* Mr. Robert E. McClure, Jr.
824 Elm Spring Rd.
Pittsburgh, Pa. 15243

Technical Sales - Grinding Mill Products and Mill Liners used in the cement, gold, silver and copper industries -
Raw Material Sales Division of U.S. Steel Corp.- Johnstown Works,
Johnstown, Pa.

Mr. Timothy J. McLinden
123 W. Whiteman St.
Yellow Springs, Ohio 45387

Teaching Physics and Math at Yellow Springs High School and coaching track and cross-country.

* Mr. Richard A. Morrison
Talladega College
Talladega, Al. 35160

I'm teaching in a 2-person department in a black liberal arts school. I've been working on an ultra-high vacuum investigation of surface effects of

Mr. Richard A. Morrison
continued

hydrogen on Ni. I'm switching to a study of aserosal nucleation (if I get funding). I'm also scrounging for the cash to build a house on 10 acres of land we have. Other possessions are a fantastic wife, 3 kids, and a tractor.

* Mr. William E. Mott
9805 Freestate Place
Gaithersburg, Maryland 20760

Thermal Applications Specialist, Division of Biomedical and Environmental Research, U.S. Atomic Energy Commission, Washington, D.C.

Married, two children.

Mr. Robert E. Netherevt
3908 Dellview Avenue
St. Paul, Minn. 55112

June 1949 -June 1950 National Bureau of Standards
June 1951 M.S., Physics, Ohio State University
1951-67 Honeywell, Inc.
Research and engineering management, Aeronautical, Systems and Research, Residential Divisions
1963-67 Councilman and Mayor, Arden Hills, Minn.
1967-present Staff of Metropolitan Council of the Twin Cities; Director of Community Services; Program manager, Recreation open space, managing a $40,000,000 program to plan, acquire and develop a regional park system in the twin cities area.

* Mr. Robert J. Nordstrom
403 Canyon Dr. South
Columbus, Ohio 43214

Received Ph.D. August, 1974. (Laser Physics). Doing post-doctoral research at O.S.U. in field of Fourier Transform Spectroscopy.

* Mr. Alan M. Peabody
28850 Emery Rd.
Chagrin Falls, Ohio 44022

Have moved from H.S. teaching to loudspeaker and enclosure design to QC management to promotional writing to market research and market/engineering laison on new products.

My present position is Marketing Planning Manager

Mr. Alan M. Peabody
continued

with responsibility for Market Research and project Management (on a team with the project engineer). Two men work for me doing similar work - one an EE, the other a Physicist/MBA. In a technical organization such as ours - Keithley Instruments - marketing requires technical expertise. In our case, this includes EE, Physics and Chemistry.

I haven't forsaken my Hi Fi interest--am part owner of a Recording Studio. Other interests and activities include local organizations (School Arts supporters who put me on a Horse Show! to earn funds, Board of Zoning Appeals and Citizens Budget Advisory Committee for Orange Schools), and, of course, the family with 4 teenagers, 1 dog, 7 cats and 3 horses. Photography and a shared family interest in music (one daughter on Piano, the other flute, and Band Bass Drummer!, 2 sons on Trombone and Cello -- Wife a Cellist from Oberlin -- I play records and very unprofessional guitar) round out the spare time between 3 a.m. and 7 a.m. on Sunday!

Somehow, we 8 physicists at Keithley -- none of whom "practice" our profession directly -- all feel our background in Physics is invaluable in giving us a broad base on which to build:

Technical
Logical
Ethical

* Mr. Craig L. Peebles
315 Stratford Rd.
Akron, Ohio 44313

Pleased to see you've started this program to inform students better. Enrolled at U. of Chicago as Ph.D. candidate in Department of Biophysics.

Mr. Craig L. Peebles
continued

Working in Bacterial DNA synthesis and genetics of B. subtitles. Suggest anybody considering Univ. of Chicago write to get local impressions. I'll put somebody up if they'd like to visit here.
Write: 1520 E 61st St. 2W
Chicago, Illinois 60637

Call: (312)-955-4278 (Home)
or -753-3763 (lab)

Mr. Dale L. Peebles
5528 Greene St.
Philadelphia, Pa. 19144

I am now in my second year of classes. Last summer and this year I've been working on a high-energy project under Prof. W. Selone. Ultimately he will be able to see the products of very high energy proton-proton collisions at Fermi NAL. But the competitive aspects of the field lead to 60-hour weeks and a necessity for dedication I don't have. Next I'm going to consider solid-state physics - very active surface phenomena group here. My correspondence would be irregular, although if someone is interested in an academic future I will try to answer. I should add the pleasure of beginning to understand the wonder of the physics now has made my year and a half here worth it. Seeing my wife and visiting friends and family are my personal activities.

Mr. James M. Relph
119 Oak Creek Blvd.
Sedona, Arizona 86336

Patent Attorney and manufacturer of decorative ceramics.

* Mr. Tom Sanborn
625 Virginia, Apt. 2
Toledo, Ohio 43620

Will enter Toledo Medical School in Sept. 1975. In addition, have plans with friends to do some subsistance farming this summer and in the coming years.

* Mr. Darrell M. Scattergood
4519 137th, S.E.
Bellevue, Washington 98006

Assistant to the Chairman of the Physics Department, University of Washington, since 1967.

* Mr. Jack Schmidt
407 Nuclear Sciences Bldg.
Univ. of Florida
Gainesville, Florida 32610

Post doc hemoglobin biophysics and biochemistry radiation biophysics (molecular).

* Mr. Jay G. Schreckendgust
431 East Street
Pittsford, New York 14534

Manager - Research Department, Castle Co./Sybron
Three Research teams - (staff 19)

Present:
(1) Sterilization Research - steam, gas, Radiation, etc.
(2) Microbiological Research - Ster. Process Monitoring (Electrocautery)
(3) Surgical support systems Res.-Surgical lighting, Bovies, Radiology, etc.

Personal: Astronomy; High performance sports cars; Private flying.

Formerly: E. I. DuPont - Fabrics and Finishes Res.
Graflex/Singer - Photographic and Audio-visual Equip. (Research Director)
Battelle Memorial - Reprograhic Res. (Engineering Physics Dept.)

* Mr. Gregory G. Seaman
Physics Department
Kansas State University
Manhattan, Ks. 66506

Assoc. Prof. of Physics
Research: 1. Basic Nuclear Physics
2. Trace Element Analysis of Wheat Flour by X-ray Fluorescence.

Mr. Thomas E. Springer
Group E-4, Ms 580
Los Alamos Scientific Lab.
Los Alamos, N. Mexico 87544

Wooster 1954, Yale Graduate School, Ph.D. 1959. Presently Associate Group Leader of Controls and Systems Analysis Group, Electronics Division.

* Mr. Tom Strobz
412 Broadway
Piqua, Ohio 45356

Teacher of 9th grade "Introductory Physical Science" for 3 years.

Mr. Albert P. Sysma
4100 Bedford Place
Silver Hill, Maryland 20023

I attended Wooster on the G.I. Bill of Rights... graduating in 1952. I am rounding out 25 years of government service this December. My present position is general engineer with the U.S. Naval Oceanographic Office, Ocean Engineering Department, Development Engineering Division. Engineers and technicians in this division are involved in the design and development of oceanographic instruments.

Mr. Albert P. Sysma
continued

I have performed dockside and at-sea testing and evaluation on heavy duty oceanographic shipboard equipment such as winches, cranes, etc. I have also participated in laboratory and field testing of acoustic, temperature, pressure, coring, photographic, current meter, etc., devices. I have prepared technical documentation for the procurement and development of these types of instruments along with related laboratory test systems.

This summer, for the first time in my life I visited Finland with my family and met two cousins and an uncle over there. It was great!

My ambition is to shoot golf in the 80's someday!

Two years ago, I visited Wooster with my son who is 13 years old now...it was disappointing to find Physics, Chemistry and Geology way behind all other departments as far as up-dated facilities were concerned.

* Mr. Allen R. Vaala
562 W. Bloomfield Rd.
Pittsford, New York 14534

Carry out low temperature/low current/low noise thermally stimulated current and ionic thermocurrent measurements at Kodak Research Labs. Taking some business courses at night; member of two local environmental and conservation committees. Play industrial league basketball.

* Mr. William A. Voter
632 LaSalle St. 4-A
Durham, N.C. 27705

Senior Research Technician at Anatomy Department, Duke University. I do computer programming, electron microscopy, and some biochemistry.

* Mr. Stephen C. Wales
301 Vierling Drive
Silver Spring, Md. 20904

I graduated in July from Duke Univ. with a Master's. I had a job offer, before I finished, from the Naval Research Lab. in Washington, D.C., where I am now working in the Acoustics Division. Specifically I am in the Ambient Noise area of Acoustics in the Ocean.

* Mr. Timothy L. Warner
3860 Lyndhurst Drive
Apt. 203
Fairfax, Va. 22030

M.S. Radio and Television, Syracuse U., Oct. 1973. Currently Floor Director for Northern Virginia Educational Telecommunications Association, Annandale, Va.

Help teach optics in Broadcast Technology Department at No. Va. Community College.

* Mr. O. Allan Wasson
3713 Stoney Castle St.
Olney, Md. 20832

I have been a member of the neutron standards section at the National Bureau of Standards in Gaithersburg, Md. since Oct. 1973. We measure neutron reaction cross sections in the energy range from thermal to 20 McV using for neutron sources a 140 McV electron linear accelerator, 3 McV positive ion VandeGraeff, and 20 MW reactor. My work is evenly divided between "applied" and "pure" physics.

After graduation from Wooster I spent 2 summers at Los Alamos on the nuclear rocket program, received my Ph.D. from Yale in 1963, post docted there for 2 years, and then hopped across Long Island Sound for 8 years at Brookhaven National Lab, with a one year visit to Oak Ridge National Lab. My professional career has been devoted to nuclear research in the large government labs.

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Research (and a very little teaching) in physiology of thermoregulation and the peripheral circulation, at the John B. Pierce Foundation, which is affiliated with Yale Medical School. In addition, I have published two papers in thermodynamics, which are fairly simple-minded from a physical point of view, and were written mostly to clear up some mis-understandings among other physiologists. (Many physiologists know less physics and mathematics than is good for them.) Non-professionally, I am on the area committee for Inter-Varsity Christian Fellowship, singing with the local Swedish male chorus and the church choir, and putting a wife through a Ph.D. in religious studies at Yale.

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My field of Nuclear Medicine obviously utilizes physics training. We have a physicist in the department and one of his duties is to teach residents planning to specialize in Nuclear Medicine, and Radiology residents who are required to have at least 3 months training in Nuclear Medicine. I am now head of the department at Cedars of Lebanon Hospital.

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