

PHYSICS AND ASTRONOMY NEWSLETTER *1980* UNIVERSITY OF NEBRASKA

At the close of summer and the beginning of a new school year, we bring you the first Newsletter from the Physics and Astronomy Department of the University of Nebraska. As you will see as you read through this Newsletter, many of our friends responded to our request of last winter for information. Enclosed with this Newsletter is another postcard for you to add what you might think is worthwhile for publication in our second Newsletter.

The school year ended in May was another banner year for the department. As part of an exercise to allocate funds for faculty raises, the physics and astronomy department was rated most meritorious department in the College of Arts and Sciences. Two of our faculty, Professors Paul Burrow and Norman Simon, were selected for outstanding teaching awards. This was the first time since these awards were established that one department has received two such awards in the same year. These two raise the total teaching awards in the department to six (previously Professors Jorgensen, Fuller, Burns, and Robert Hardy received this award).

This year again finds Professor Fuller working in the Centennial Education Program. As many of you are probably aware Professor Fuller is president of AAPT this year. Professor Rudd is president of DEAP, and Professor Burns is Associate Dean of the College of Arts and Sciences.

The UNL Physics Department will soon have its own equipment for liquefying helium. At present, we purchase liquid helium from a plant in Texas, which is both costly and inconvenient, as researchers must plan their use of the refrigerant at least a week in advance, and even then the shipping is undependable. Making our own will mean that there will always be a supply on hand, with no advance notice, and in small or large amounts. It will cost about half that of the purchased liquid.

An important feature of our facility will be the recovering of helium gas as the liquid boils. We will be able to compress, purify, and reliquefy it, whereas at the present time we have no choice but to let the gaseous helium escape into the atmosphere.

The United States is blessed with a large amount of helium in its natural gas wells -- often as much as 1%. But this will not last forever, and to get helium from the atmosphere, as is done in some countries, would cost a hundred times as much.

In the Physics Department, liquid helium will be used mostly in the solid state research of Professors David Sellmyer, Roger Kirby, and Frank Ullman. We will also be supplying it for research in the departments of Chemistry and Electrical Engineering.

The total cost of the helium liquefaction system is \$164,000, with funds coming from several sources. A National Science Foundation grant provided \$77,000, the University of Nebraska \$17,000, and the remainder will come from University funds. The principal investigator is Professor Sellmyer, Professor Pearlstein is directing the installation, and Les Marquart, of the shop, will operate it. Installation should occur in late summer or early fall of 1980.

The faculty of the department now includes:

Donal J. Burns  
Paul D. Burrow  
Paul R. Byerly, Jr.  
William B. Campbell  
Paul Finkler  
Robert G. Fuller  
John R. Hardy  
Robert J. Hardy  
Duane H. Jaecks  
Sitaram S. Jaswal

C. Edward Jones  
David W. Joseph  
Robert Katz  
Roger D. Kirby  
Lester Lipsky  
Kam-Ching Leung  
Joseph Macek  
Thomas A. Morgan  
Edgar A. Pearlstein  
M. Eugene Rudd

James A. R. Samson  
Leo Sartori  
Dan W. Schlitt  
Edward G. Schmidt  
David J. Sellmyer  
Norman R. Simon  
Anthony F. Starace  
Donald J. Taylor  
Frank G. Ullman  
John Weymouth  
Edward J. Zimmerman

During the last school year, Professor Katz was on leave for research for one semester, Professor Samson was on leave for one semester in Hawaii, and Professor Starace was on leave for one semester in Germany. Professor Sartori has been on leave for two years at the U. S. Arms Control and Disarmament Agency.

In addition, the following are currently post-doctoral researchers working in with various faculty members in the ongoing research program of the department:

Ning-Shih Chiu	Donald L. Miller
Arthur L. Goldberger	Abraham Naharin
George Hadjipanayis	James E. Potter
Mahbubur Khan	Charles Robbins
David Liebowitz	Hidetoshi Suemitsu
Nestor Massa	Julian Uschersohn

Alberto Modellix is a visiting scholar.

We are still trying to locate the following lost friends:

Dr. Charles B. Ackerman	(M.A.-50; Ph.D.-53)	Mr. Robert R. Matulka	(B.S.-73)
Dr. Bishan Agrawal	(Ph.D.-74)	Ms. Carol McKinley	(B.S.-64)
Mr. Donald Anderson	(B.S.-54)	Mr. John C. Meyers	(B.S.-75)
Mr. Malvyn P. Bailey	(M.A.-62)	Mr. Edward E. Moreland	(M.A.-54)
Mr. Glenn A. Brindiero	(M.S.-69)	Mr. Maurice L. Mullin	(M.S.-53)
Mr. Wayne R. Chase	(M.S.-66)	Mr. Stuart O. Nelson	(B.S.-52; M.S.-54)
Mr. Duane A. Courter	(M.S.-60)	Mr. Edward B. Niccum	(M.S.-66)
Ms. Jean Davis	(B.S.-54)	Mr. Terry L. Ochsner	(B.S.-72)
Mr. James Eder	(M.S.-66)	Mr. William O'Shaughnessy	(M.S.-70)
Mr. Timothy D. Evans	(B.S.-75)	Mr. Robert L. Phillips	(B.S.-73)
Mr. Charles R. Franz	(M.S.-69)	Dr. Kevin D. Reilly	(M.S.-62)
Mr. William G. Garner	(B.S.-68 or 69)	Mr. Kenneth B. Scow	(M.A.-55)
Mr. Neil Goldman	(M.S.-64)	Mr. Roy Simperman	(M.A.-65)
Mr. Paul Hiltenson	(B.S.-54)	Mr. Gary L. Starkey	(B.S.-63)
Mr. Randy R. Hinze	(B.A.-75)	Mr. Joseph C. St. Lucas	(M.S.-76)
Dr. Bruce W. Jones	(B.S.-69; M.S.-76; Ph.D.-79)	Mr. George L. VanEvery	(B.S.-73)
Mr. Henry J. Lenhoff	(B.A.-72)	Mr. Theodore Wade, Jr.	(M.S.-62)
Miss Fang-Mei Linn	(M.S.-62)	Mr. Kuo Kuang Wang	(B.S.-58)
Mr. Michael T. Marsh	(B.S.-70)	Ms. Anna Welch	(B.S.-62)
Mr. Edward Mathieson	(B.S.-71)	Mr. Ronald E. Whitney	(B.S.-73)

## RECENT ALUMNI NEWS

ABRAHAMSON, Dr. Dean E., Professor, University of Minnesota, 1092-25th Avenue, S.E., Minneapolis, MN 55406

ACKERSON, Bruce, Assistant Professor, Oklahoma State University, Stillwater, OK 74078

AHMED, Mohammed, 532 South Brentwood Drive, Mt. Laurel, NJ 08054

ALTROCK, Dr. Richard C., Astrophysicist, Air Force Geophysics Lab, Sacramento Peak Observatory, Sunspot, NM 88349

Received Ph.D. in AstroGeophysics from University of Colorado-Boulder in 1968. Dr. Altrock has been in the present position since that time, solar physics research. He is married and has two children.

ANDERSON, George C., Operations Engineer, Jet Propulsion Lab, 485 Arundel Road, Goleta, CA 93017

ANDERSON, Terry L., Associate Professor, Department of Physics, Walla Walla College, College Place, WA 99324

Dr. Anderson is teaching half-time in physics and currently has an NSF grant to perform consulting services to all science departments on campus in the area of educational computing for half-time. He is also Acting Chairman of a new four-year program in computer science.

BARNES, Timothy Paul, Systems Analyst, Northern Natural Gas, 10607 Yort Circle, Omaha, NE 68134

BAUMERT, William J., Captain, United States Air Force, 60 Walter Court, Merritt Island, FL 32952

Captain Baumert is currently doing graduate work in physics at Florida Institute of Technology.

BAY, Frank J., Engineering Systems, Deere & Co., European Office, Postfach 503, D 6800, Mannheim 1, Germany

He recently transferred to Germany. Received a Masters Degree in Computer Science from UNL in 1971.

BIRGE, Thomas A., Senior Scientist, Lockheed Missiles and Space Co., Inc., Palo Alto Research Lab, (home address) 882 Poppy Court, Sunnyvale, CA 94086

Performs analysis and performance evaluation of an IR mosaic focal plane radiometer.

BLOCHER, Allen F., Associate Professor, Department of Physics and Astronomy, University of Wisconsin, Stevens Point, WI 54481

BOECKMAN, James M., Jr., Senior Computer Operator, Clarkson Hospital, 1454 S. 15th St., Omaha, NE 68108

BRETTAUER, Richard L., Teacher/Assistant Wrestling Coach, Mitchell High School, (home address) 1018 - 16th Avenue, #21 Mobile Valley Park, Scottsbluff, NE 69361

BRYAN, Blaine D., 3825 Summer Terrace, Titusville, FL 32780

He is presently in charge of reference standards at Kennedy Space Center, Florida.

BUNCH, Dr. James M., MS 528, Staff Member, Los Alamos Scientific Laboratory, University of California, P. O. Box 1663, Los Alamos, NM 87545

CHRISTENSEN, Gary, Major, United States Air Force, 4523 Dunbarton, Wichita Falls, TX 76302

Received B.S. in 1965; M.A. in 1977 in Political Science from Wichita State University. Served in Vietnam from 1967-72. Titan II Missile Launch Officer, 1973-77. Currently training German and Dutch officers to fly T-37 training aircraft.

COZAD, David E., Materials Clerk, Packard Electric Div. of GMC, 3062 'B' Ivy Hill Circle, Cortland, OH 44410

CRANDALL, David H., Research Physicist Group Leader: Atomic Physics for Fusion, Union Carbide Corp. (ORNL), Bldg. 6003, Oak Ridge National Lab, Oak Ridge, TN 37830

CROOKS, Geoffrey B., Engineering Manager, ISCO, 4700 Superior Street, Lincoln, NE 68504

DARLAND, Jeffrey J., 11621 Dennis Road, Apt. 1024, Dallas, TX 75229

DILLY, Virgil, Route 1, Box 126, Wentworth, SD 57075

DODSON, Brian, Member of Technical Staff, Research Division 5131, Sandia Labs, Albuquerque, NM 87115

Has just joined Sandia after receiving a Ph.D. from the University of Illinois. Will be developing a new program in "Shock Wave Chemistry of Solids." "I'll decide later what that means."

DuBOIS, Robert, Visiting Assistant Professor, Kansas State University, Manhattan, KS 66506

Just returned from Europe where Dr. DuBois spent 1+ years at the Hahn-Meitner-Institute in Berlin. Prior to that, he spent 1+ years in Aarhus, Denmark at Der Fysiske Institut, University of Aarhus. Wife's name is Kay.

EDDY, Stephan M., Senior Field Engineer, Schlumberger Well Services, Route #7, Box #34, Houma, LA 70360

"What can you say about chocolate covered man-hole covers?"

EDWARDS, Alan, Associate Professor, University of Georgia, Athens, GA 30602

Wife, Sharon; Daughters, Julie, 15 and Laurie, 13. Will spend this summer as a Visiting Scientist at Argonne National Lab in Physics Division working with Dr. Donald Gemmell.

EGBERT, Gary T., Associate Professor-Chairperson, Department of Physics, University of Wisconsin-La Crosse, La Crosse, WI 54601

Three children: Jeff, G. J., and Jennifer. Active beekeeper. Solar Energy "Consultant." University Radiation Safety Officer.

ELWELL, Walter G., Director of Institutional Research, Nebraska Wesleyan University, (home address) 7030 Starr, Lincoln, NE 68505

FERRIS, Walton, Jr., SRI, 2311 Middlefield Road, Palo Alto, CA 94301

Is doing electronic design in telephone and digital areas.

FLECKENSTEIN, David C., Systems Engineer, IBM, 1221 Briarfield Drive, Lansing, MI 48910

FLOCKEN, John, Chairman and Professor of Physics, Physics Department, University of Nebraska-Omaha, Omaha, NE 68182

FRASER, Bill, Senior Staff Scientist, Martin Marietta, 1424 North Tejon Street, Colorado Springs, CO 80907

FREUND, George A., Jr., Senior Engineer, Boeing Military Airplanes, 425 S. Yale, Wichita, KS 67218

GARNER, Philip, Senior Engineer, Stearns-Roger Corp., 285 East Caley, Littleton, CO 80121

Has just completed his Masters Degree in Mechanical Engineering at Colorado State University.

GAU, Dr. John N., Programmer/Analyst, Computer Sciences Corp., 13902 Castle Blvd. #202, Silver Springs, MD 20904

GERLACH, John, Aerospace Technologist: Space Physics, N.A.S.A., E107, Wallops Flight Center, Wallops Island, VA 23337

After leaving NU, served 2 years as an army officer, joined NASA and worked for several years. Was sent back to school and received an M.S. (1976) from Indiana University. Currently back at work and finishing a Ph.D. dissertation in nuclear physics.

GRAY, David M., Research Assistant, University of Illinois, Sherman Hall, Room 1257, Champaign, IL 66215

Currently working toward a Ph.D. in Educational Psychology with an emphasis on Quantitative Psychology. His assistantship involves working with the Instructor and Course Evaluation System (ICES) at the University of Illinois.

GREENE, Chris H., Research Assistant, Dept. of Physics, University of Chicago, #225, 5316 South Dorchester, Chicago, IL 66615

GROSS, Everett W., Doane College, Crete, NE 68333

GRUZALSKI, Greg R., Research Associate, Oak Ridge National Lab, 138 Parsons Road, Oak Ridge, TN 37830

GUSTAVSON, David B., Member, Technical Staff, Stanford Linear Accelerator Center, 1946 Fallen Leaf Lane, Los Altos, CA 94022

Working on design of D.O.E.'s FASTBUS, multi-processor successor to CAMAC. Chairman of FASTBUS software standardization committee. Worked in Elementary Particle Physics, experimental, until 1977. Since then in Computation Research Group, working with computers and electronics.

HAGGARD, Kenneth V., Aero-Space Engineer, National Aeronautics and Space Administration, 13 El Paso Court, Hampton, VA 23369

HAGRMAN, Don, D Grade Supervisor, EG&G Idaho, 1895 Carmel Drive, Idaho Falls, ID 83401

HANSON, Roger, Physics Department, University of Northern Iowa, Cedar Falls, IA 50613

Professor Hanson is the Department Head at the University of Northern Iowa. He has asked for reassignment as full-time physics faculty member after 11 years as department head. His research interests are shifting from nuclear spectroscopy to musical acoustics.

HEEGER, Alan J., Professor, Department of Physics, University of Pennsylvania, Philadelphia, PA 19104

HEINISCH, Howard, Senior Scientist, Westinghouse Hanford, 115 Riverwood, Richland, WA 99352

"I work for Westinghouse Hanford Co., which operates the Hanford Engineering Development Lab (HEDL) for the DOE. My work is funded by the Office of Fusion Energy, which has a (slowly) growing fusion reactor materials program. I do computer modeling of radiation damage at the atomistic level.

"My wife, Suze, as you may remember, is a former fixture of the UNL Physics (and Comp. Sci.) department, and as such, I feel, deserves a line or two. She is presently employed at HEDL as a secretary.

"Prior to our coming to Eastern Washington's desert (it's not all green you know) I was a Research Engineer in the Materials Department at UCLA. Suze was a secretary for the solid state physics group at UCLA.

"We manage to get back to Nebraska occasionally, since we both have families there. I look forward to seeing the results of (the) newsletter."

HELWIG, Russell, Associate Professor, Department of Physics, University of Wisconsin-Whitewater, Whitewater, WI 53190

HIEGGELKE, Curtis, Instructor, Physical Science Department, Joliet Junior College, Joliet, IL 60436

HORNADY, Robert (Bear), Lawrence Livermore Lab, Livermore, CA 94550

HUTZENBILER, LeRoy M., GTE Sylvania, 37 Freemont St., Lexington, MA 02173

IZAWA, Howard S., Research Scientist, Internorth Inc. (Northern Natural Gas Co.), 721 Tara Road, Papillion, NE 68046

Alternate energy research.

JOHNSTON, Alan R., Research Assistant, Department of Physics and Astronomy, UNL, 260 Behlen Lab, Lincoln, NE 68588

JOUTRAS, David William, Teaching Assistant, University of Wisconsin, Madison, WI 53715

Is presently interested in High Energy Physics and Plasma Physics. Has not yet decided which one he will go into.

KRAUTER, Byron and Rose Ann, Associate Engineers, IBM, 5 Killoran Drive, Essex Junction, VT 05452

New parents of a baby boy born in the spring of 1980.

KRUHMIN, Larry A., Research Engineer, General Dynamics - Convair Division, 11381 Zapata Avenue, Apt. 26, San Diego, CA 92126

Currently responsible for guidance software for Centau and Atlas missiles and is active in new projects both for the space program and defense.

KUYATT, Dr. Chris E., Director, Center for Radiation Research, National Bureau of Standards, 2904 Hardy Avenue, Wheaton, MD 20902

After 11 months as Acting Director of the Center for Radiation, Dr. Kuyatt is to be appointed Director. He was recently appointed by the Department of Commerce as representative of the Interagency Radiation Research Committee (formed by White House order). The Center has recently completed a report for the Senate on needs for Ionizing Radiation Measurements.

LACKEY, Sharon (Winfrey), Engineering Physicist, Fermilab, Route 1, Box 183, Elburn, IL 60119

Sharon has a 1 year old daughter.

LaGREEK, Paul, Systems Engineer, HP3000 Computer Systems, Hewlett-Packard Co., 5521 Kern Drive, Huntington Beach, CA 92649

Currently working as a software specialist and consultant for operating systems and applications program design. Should complete his M.B.A. at California State University-Long Beach in May 1980.

LAHIFF, John E., Chief Engineer, Advanced Engine Systems and Components, United Technologies Automotive Products Division, 33953 Schulte, Farmington, MI 48024

Changed jobs last Nov. '79. Previously worked since graduation in '64-65 for General Motors: at the GM proving grounds in auto safety engineering 65-71, in vehicle emissions work 71-72, and lastly at the GM Technical Center in Detroit for GM engineering staff - advance product engineering - fuel economy and emission system development.

LANG, Dr. Wayne, University of North Carolina-Asheville, Asheville, NC 28804

LANGEMACH, Norman, Jr., Attorney, 321 Lakewood Drive, Lincoln, NE 68510

LEE, Lawrence J., 1457 Washington, Lincoln, NE 68502

LEE, Millard A., Senior Physicist, EG&G Idaho Inc., 2835 Janet Street, Pocatello, ID 83201

Received Ph.D. in Nuclear Physics from Iowa State University. Currently employed at the Idaho National Engineering Laboratory, doing research on nuclear structure of rare earth nuclides. Also doing nuclear data evaluation for nuclear data sheets.

LOOK, D. C., Professor, Mechanical Engineering Department, University of Missouri-Rolla, Rolla, MO 65401

LORENTS, Donald C., Director, Molecular Physics Laboratory, SRI International, 3112 Cowper Street, Palo Alto, CA 94306

LUTTRELL, Ron, Technical Training, Union Pacific Railroad, 6202 North 31st Avenue, Omaha, NE 68111

Has been on this job one year travelling a lot in his teaching job.

MAEDA, Dr. Kaichi, Senior Research Scientist, N.A.S.A., 113 White Birch Court, Greenbelt, MD 20770

MAHER, Robert L., Graduate Student, Department of Physics and Astronomy, University of Nebraska-Lincoln, Lincoln, NE 68588

MAHOWALD, Peter H., Philips Labs, 56 South Highland Avenue, Apt. A1, Ossining, NY 10562

Will attend Stanford in the Fall of 1980 in Electrical Engineering.

MAURER, Christopher, Postdoctoral Fellow, Department of Material Science, University of Florida, 4117 S.W. 20th Avenue, #251, Gainesville, FL 32601

McCLELLAND, Robert A., Teacher, Physics, Electronics, Trigonometry and Math Analysis, Beatrix Public Schools, 121 Cedar Street, Beatrice, NE 68310

MELLES, John J., Chairman, Division of Science and Math, Aurora College, Aurora, IL 60506

MILLER, Dr. Donald D., Associate Professor of Physics, Central Missouri State University, 303 West Gay, Warrensburg, MO 64093

Taught 3 years at Panhandle A & M, Goodwell, OK. Received Doctorate from Texas A & M, College Station, TX. Has been at CMSU since 1968. Dr. Miller has 4 children (each born in a different state - Florida, Oklahoma, Texas, and Missouri) and has fond memories of his days in Lincoln.

MILLER, Nathan J., Space Scientist, Goddard Space Flight Center/NASA, 1100-6th Street, S.W., #515, Washington, D.C. 20024

MULLEN, Michael E., Senior Staff Engineer, Magnavox Electronics, 4330 South Harrison, Ft. Wayne, IN 46807

NATARAJAN, M., Research Assistant, Department of Physics and Astronomy, University of Nebraska-Lincoln, Behlen Lab, Lincoln, NE 68588

A low-energy accelerator is being built by Dr. Jaecks and M. Natarajan for the study of near threshold ionization collisions in  $\text{He}^+ + \text{He}$  Systems. A novel detector system will be used to measure the energy and angular distribution of electrons.

NEUMANN, Herschel, Associate Professor, Department of Physics, University of Denver, Denver, CO 80208

Current research interests include atomic and molecular collisions (theory) and computer applications in physics.

NIVA, Gordon D., Member of Technical Staff, Rockwell International, 1516 River Road, Corona, CA 91720

Would enjoy hearing from contemporaries. Come visit us in 'sunny?' California.

OLSEN, Curtis L., Seismologist, Geophysical Service, Inc., 11722 West Belfort, Stafford, TX 77477

OSTELIEK, Arthur J., President, Neos, Inc., 2035 'B' Street, Lincoln, NE 68502

Dr. Osteliek received his Ph.D. in Fluid Mechanics and Heat Transfer in 1976. He has been working in Research and Development (R & D) in fluidics since he received his degrees from UNL. In 1976, he moved back to Lincoln (to stay) from the east coast. He has formed his own company, engaging in R & D fluidics. He is currently developing a line of sensors for a large corporation. Dr. Osteliek teaches Fluid Mechanics on a part-time basis in the Mechanical Engineering Department at UNL.

PARK, John T., Chairman and Professor of Physics, Physics Department, University of Missouri-Rolla, Rolla, MO 65401

PHELPS, Fred T., Jr., 1809 Knox Avenue, South, Minneapolis, MO 55403

After teaching in the Physics Department of Lawrence University, Appleton, Wisconsin, and selling computers for IBM in Minneapolis, Dr. Phelps purchased his own business: Tonka Bay Marine, a marina on Lake Minnetonka, just west of Minneapolis. He feels this sequence represents an excellent example of the Peter Principle in action. He and his wife, Lory, live in Minneapolis and have sons at R.P.I. in Troy, New York, the University of Wisconsin in Stevens Point, and the University of Oregon in Eugene.

PINKERTON, Frederick E., C-17 Clark Hall, Cornell University, Ithaca, NY 14853

PORTSCHY, Elden E., Postmaster, P. O. Box 2, Roca, NE 68430

REITAN, Kenneth, Computer Programmer, Central Telephone and Utilities, 2310 South Canterbury Lane, Lincoln, NE 68512

A section of the Newsletter should be devoted to general information about employment opportunities for physicists.

ROSMAN, Ron, Teaching Assistant, Department of Physics, University of Chicago, Chicago, IL 60637

Currently a first-year graduate student at the University of Chicago.

RUDD, M. Eugene, Professor, Department of Physics and Astronomy, University of Nebraska-Lincoln, Lincoln, NE 68588

SALYER, Lynn E., Head, Department of Math and Computer Science, Medicine Valley High School, Curtis, NE 69025

Will complete Masters Degree at Kearney State College in August 1980.

SASTRI, Vemury K., Scientist/Math Analyst, CSC/Goddard Institute for Space Studies, 2880 Broadway, New York, NY 10027

SAUTTER, Chester A., Associate Professor of Physics, Concordia College, Moorhead, MN 56560

SAZAMA, Franklin J., Ph.D., Pulse-Power Physicist, Naval Surface Weapons Center, Code F-34 Bldg. 132, White Oak, MD 20910

Has been doing development on two projects (intense electron-beam propagation by wires and electromagnetic mass acceleration) that have been "very successful and fun."

SCHMIDT, James J., Project Engineer, Lockheed Missile & Space Co., (home address) 587 Trumbull Court, Sunnyvale, CA 94087

SCHNEIDER, Donald P., Graduate Student in Astronomy, California Institute of Technology, Caltech 105-24, Pasadena, CA 91125

SCHULDT, Theodore J., Engineering Section Manager, Rockwell International Collins Avionics Division, 3936 N. Verde Vista Drive, Thousand Oaks, CA 91360

SCHUSTER, Sanford L., Professor of Physics, Department of Physics, Mankato State University, 225 PFAU St., Mankato, MN 56001

Mankato State is primarily a teaching institution. Dr. Schuster has taught everything from HiFi Physics, meteorology, and aerospace workshops, to the usual graduate level physics courses in mechanics and E & M. Wife, Mary, also has an M.S. in Zoology from UNL. Two children - Elizabeth 9 and Douglas 4.

SHAKESHAFT, Robin, Assistant Professor, Texas A & M University, Physics Department, College Station, TX 77843

SHARMA, Dr. Thaneshwar Prasad, Reader in Physics, Institute of Advanced Studies, Meerut University, Meerut 250001 INDIA

Looking forward to the Newsletter. Dr. Sharma wishes to convey his regards and congratulations to Professors Macek and Robert Hardy.

SHUCK, Elmer E., Manager, Electronic Counter Measures, Development Engineering, General Electric Aerospace Electronics System Department, Utica, NY 13503

SHULT, Donald, Associate Professor, University of Nebraska-Omaha, Omaha, NE 68134

SMALLEY, Larry L., Chairman, Physics Department, University of Alabama in Huntsville, Huntsville, AL 35807

Senior NRC, Marshall Space Flight Center 1974/75  
Humboldt Fellow, University of Cologne 1976/77

SNYDER, Kenneth, Professor of Physics, S.U.N.Y. at Morrisville, Morrisville, NY 13408

SORENSEN, Chris, Assistant Professor, Kansas State University, Manhattan, KS 66506

STEEN, Richard, c/o Mildred Steen (mother), 1108 South Summit Avenue, Sioux Falls, SD 57105

Works for Chrysler Corp. and lives in Grass Lake, MI but exact address is unknown.

STENBERG, Don, Director of Policy Research Office, State of Nebraska, (home address) 1935 Harrison Avenue, Lincoln, NE 68502

STRIEFLER, Dr. Fred, Assistant Professor of Physics and Computer Science, University of Hartford, 36 Brentwood Drive, Bloomfield, CT 06002

STUTZ, Conley, Professor of Physics, Bradley University, Peoria, IL 61625

SUDA, Tomoshige, Meteorological Research Institute, 112-201, Azuma-4, Sakura-mura, Niihari-Gun, Ibaraki, 305, JAPAN

Currently living in a newly built town for scientific work.

SULLIVAN, George A., Statistical Analyst III, Pennsylvania State Parole Board, 4204 Kota Avenue, Harrisburg, PA 17110

Dr. Sullivan was forced to quite physics in October of 1971 due to a lack of jobs. Family: Virginia W. Sullivan works as Capitol Police Corporal; Bonnie, 18, attends Harrisburg Area Community College; Timothy, 16, is a junior in High School.

THORNTEN, Melvin C., Associate Professor, Mathematics Department, University of Nebraska-Lincoln, (home address) 3405 "M" Street, Lincoln, NE 68510

TUCKER, Robert D., Research Associate, University of Minnesota, Minneapolis, MN 55414

TVETEN, Alan, Physics Department, Colorado State-Fort Collins, Ft. Collins, CO 80523

UNDERHILL, Glenn, Professor of Physics, Planetarium Director, Kearney State College, Box 70, Riverdale, NE 68870

Last winter the program of the KSC planetarium was expanded by adding regular public shows. Presentations to date have been "The Legacy" (Man's Achievements in Space) and "The Universe and Dr. Einstein."

VENHULZEN, James R., Simulation Lab Supervisor, EG&G Idaho, 1011 Woodruff, Idaho Falls, ID 83401

WADEHRA, Jogindra M., Visiting Assistant Professor, Department of Physics, Texas A & M University, College Station, TX 77843

WEIMER, Robert K., Lt. j.g., U.S. Navy, 2222 Ashley River Road, Charleston, SC 29407

Naval Station, Charleston, SC. USS Narwhal SSN-671. Nuclear Submarine Officer.

WITTEN, Dr. Maurice H., Professor and Chairman of Physics Department, Fort Hays State University, Hays, KS 67601

Dr. Witten is completing his 20th year at FHSU. He earned his Ph.D. in Physics Education at the University of Iowa in 1967. He has been the Physics Department Chairman at FHSU since 1960.

WOODRUFF, Dr. William L., Nuclear Engineer, Argonne National Lab, Bollingbrook, IL 60439

WOOTEN, Dr. John W., Computational Physicist, Union Carbide Corp., Nuclear Division, 7812 Castlecombe Road, Powell, TN 37849

In 1972-73, Dr. Wooten was a postdoc at LSU with Professor J. Calloway; 1973-75 he was at Oak Ridge, 3-D MHD Plasma Diagnostics; 1975-76, he was in Vienna, Austria with IAEA Systems Design for International Safeguards; 1976-present, he is with Oak Ridge, 3-D Neutral Beam Injector Simulation/Plasma Separating Process simulation. Children Cheryl (16), Debbie (15), Aaron (4), wife Lorraine and Dr. Wooten are all fine.

YAUNEY, Tasmen A., Physicist, U.S. Army (Civilian), White Sands Missile Range, 1150 Triviz, #48, Las Cruces, NM 88001

ZEIDLER, James R., Supervisory Physicist, Head, Analysis Branch of the Electronics Division, Naval Ocean Systems Center, 11829 La Colina, San Diego, CA 92131

IN MEMORIAM: Dr. Leo G. Raub passed away March 21, 1975 as the result of a massive stroke. Michael Rediger died of lung cancer.