

35 Inventors Recognized at Patents Dinner

"Everything that can be invented has been invented."

—Charles H. Duell, Director of the U.S. Patent Office, 1889

"Heavier than air flying machines are impossible."

—Lord Kelvin, President, Royal Society, c. 1895

"There is no likelihood man can ever tap the power of the atom."

—Robert Millikan, Nobel Prize in Physics, 1923



Twenty-five of the 35 PPPL inventors who participated in the Patent Awareness Program stand behind Prospect House where the annual dinner honoring them was held. Kneeling, left to right are: Tim Bennett, Doug Darrow, Charles Skinner, Roy Rosser, Schweickhard von Goeler, Joe Stencel, Fulvio Zonca, Eric Fredrickson, Mike Vocaturo, Alan Ramsey, and Kevin McGuire; standing, left to right are: Masayuki Ono, Sam Cohen, Greg Lemunyan, John Timberlake, Lew Meixler, Charlie Staloff, Harold Furth, Szymon Suckewer, Larry Guttadora, Joe Bartolick, Ken Hill, Hulbert Hsuan, Nathaniel Fisch, and Shoichi Yoshikawa.

Photo: James Faczak

With these quotations to emphasize the need for optimism and imagination in pursuing inventions, Director Ron Davidson opened his remarks to the tenth annual Patent Awareness Program dinner, held May 14 at Prospect House. The US Department of Energy hosted the dinner, honoring the 35 PPPL inventors who participated in the Patent Program in fiscal year 1990.

During the awards ceremony, Davidson presented each inventor with a Certificate of Recognition. Just before Christmas, the Committee on Inventions presented cash awards to the inventors for their novel ideas. For an invention disclosure, each inventor receives \$100, up to a maximum of \$300 per disclosure. If there are more than three inventors, the award is shared.

Additional monies—\$200 per inventor—are awarded when the Department of Energy files a patent application. For a statutory invention registration, \$200 is awarded each inventor. During fiscal year 1990, inventors were awarded \$4000. More than \$64,000 has been awarded since the program began.

According to John Johnson, who has chaired the Committee since its inception, "The Patent Awareness Program was established to recognize creative inventors, foster invention disclosures, and raise the awareness of Laboratory staff about the importance of patents."

Adds Johnson, "PPPL staff have good reason for giving the patent process serious thought, because in recent years there has been an increase in the possibility of patents

providing economic gain for the University, the Laboratory, and the individual inventor." He observes, "The program was originally provided as a means to encourage the disclosure of inventions as is required by our contract with the Department of Energy. This aspect of the program is still important, and all employees should remain aware of this responsibility."

For fiscal year 1990, one patent and one statutory invention registration (SRI) were issued. An SRI is awarded for an invention that does not have enough commercial value to warrant a patent, but is registered in order to avoid patent by others. Also for 1990, three patent applications were filed, and 13 inventions were disclosed.

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Inventors

Continued from page 1

Marilyn Hondorp, who is a member of the Committee on Inventions, was commended by Chairman Johnson for her "heroic efforts" in organizing the dinner. Other committee members are: Peter Bonanos, Joseph File, Richard Rossi, Charles Staloff, and Schweickhard von Goeler.

Patent Activity Fiscal Year 1990

Patent Issued

Differential Atmospheric Tritium Sampler

Otto Griesbach
Joe Stencil

Statutory Invention Registration

Method of Sustaining a Radial Electric Field and Poloidal Plasma Rotation Over Most of the Cross Section of a Tokamak

Douglass Darrow
Masayuki Ono

Patents Applications

Fiber Optic Current Monitor

George Renda

Method of Measuring the DC Electric Field and Other Tokamak Parameters

Nathaniel Fisch
Arnold Kritz

An Optically Pumped CH₃OH Laser with a Stark Tuning Capability and with a Fluid-Cooled Cavity

Dennis Mansfield
Michael Vocaturo
Lawrence Guttadora

Inventions Disclosed

Imaging Two-Color Pyrometer

George Renda
Gregory Lemunyan
John Lowrance

Entry Reader

Shoichi Yoshikawa



Members of PPPL Council join members of the Committee on Inventions before the annual Patents dinner at Prospect House. First row, left to right are: Schweickhard von Goeler, Peter Bonanos, John Schmidt, John Johnson, Marilyn Hondorp, Richard Rossi, Paul Rutherford, and Ron Davidson; second row, left to right are: Ned Sauthoff, Rush Holt, and Dale Meade.

Photo: James Faczak

Plasma Momentum Meter for Momentum Flux Measurements

Fulvio Zonca
Sam Cohen
Timothy Bennett
John Timberlake

An Automated Way of Check Sorting

Shoichi Yoshikawa

Bi-directional, Co-axial Sightline Device

Alan Ramsey
Joseph Bartolick

Fast Tangential Soft X-ray Camera for Fluctuation Studies on Toroidal Plasma Confinement Devices

Schweickhard von Goeler
Manfred Bitter
Ray Fonck
Eric Fredrickson
Kenneth Hill
Hulbert Hsuan
Kevin McGuire

Toroidal Magnetic Detector for High Resolution Measurement of Muon Momenta

Peter Bonanos

Impurity Line Fluctuation Diagnostics

Schweickhard von Goeler
Manfred Bitter
Eric Fredrickson
Kenneth Hill
Hulbert Hsuan
Elnar Hinnov
Gerd Fussmann
Kevin McGuire

Multiple Target Conveyor System

David Voorhees

Injection of Electrons with Predominantly Perpendicular Energy into an Area of Toroidal Field Ripple in a Tokamak Plasma to Improve Plasma Confinement

Masayuki Ono
Harold Furth

Reflection Soft X-ray Microscope

Szymon Suckewer
Roy Rosser
Charles Skinner

Linear Position Measurement System

Lewis Meixler

Low Flow Meter

Lewis Meixler

Stencel Appointed to NJ Siting Board

Joseph R. Stencel, Deputy Head of the Environment, Safety and Health Division at PPPL, has been appointed a member of the Low-Level Radioactive Waste Disposal Facility Siting Board. Based on a nomination by his peers in the New Jersey Department of Environmental Protection, Governor Jim Florio made the Stencel appointment, which was then confirmed by the State Senate. In his letter of appointment to Stencel, Governor Florio wrote, "I am confident that you will fulfill the duties and responsibilities of this position with competence and integrity. I am pleased to have you join me in working to achieve the best New Jersey for all our citizens."

The Siting Board was created based on actions by the federal government mandating that all states

must provide their own low-level radioactive waste sites or join compacts that include other states. New Jersey and Connecticut are together in the two-state Northeast Compact.

Since PPPL is a federally funded facility, any radioactive waste generated at the Lab goes to the federal facility at Hanford, Washington. However, the Siting Board decisions will be important to biological research at Princeton University, hospital treatment centers, power plants, industrial users, and others.

Stencel says, "I appreciate the confidence placed in me by my peers and the Laboratory's support of this effort. This Siting Board is one of the more difficult boards to be on because of the NIMBY (Not in My Back Yard) syndrome." He adds, "Being on the board will provide



Joseph R. Stencel Photo: James Faczak

me a new experience in public relations, because we will probably have to deal with some hostile reactions."



All four PPPL Directors were together for the first time when they came to hear James Van Allen give the Robert A. Ellis Memorial Lecture on May 15. At rear are (left) Lyman Spitzer, Jr., founder of Project Matterhorn (later PPPL) and Director from 1951 through 1960, and Melvin B. Gottlieb, Director from 1961 through 1980. In front are (left) Harold P. Furth, Director 1981 through 1990, and current Director Ronald C. Davidson.

Photo: Dietmar Krause

HOTLINE

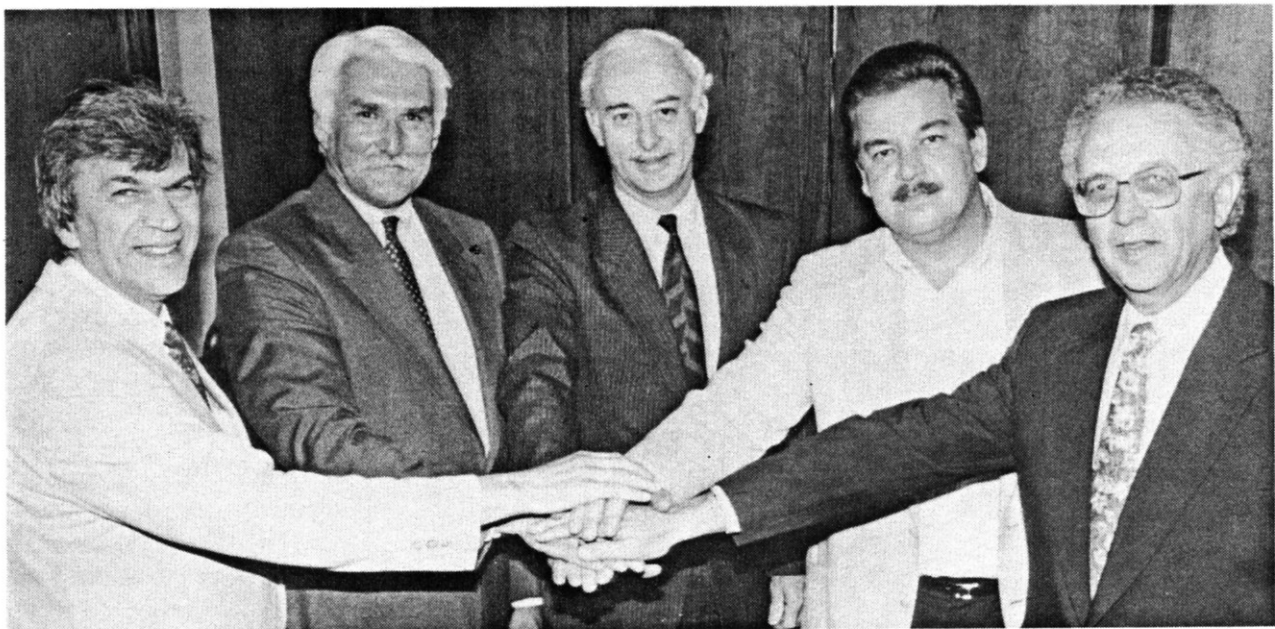
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Staff Get Credit for Business Course

PPPL staff became students during the "Business Organization and Management" course recently completed on Tuesdays and Thursdays at the Lab. Student Betty Carey says, "It's been fun, but difficult, and I learned some things I can use in my job." Such courses, taught through Mercer County Community College, and part of the PPPL Employee Development Program, can be taken for credit—half during lunch hour and half on Lab time. Some students plan to apply their credit towards a degree. Exposure to the subjects taught here may help them decide what they want to major in later.

Richard Myslinski, Dolores Bergmann, and Gloria Cain have a word with Professor Joseph Kasian (right) in preparation for a "Business Organization and Management" test. Photo: Dietmar Krause



The Princeton Plasma Physics Laboratory recently formed a partnership with Mercer County Community College, the General Motors Inland Fisher Guide Division in Ewing, and St. Francis Medical Center in Trenton to participate in a new experimental program to help employees develop skills needed to meet changing technological requirements in the workplace. Called "Skills for Tomorrow—NOW (New Opportunities in the Workplace)," the program is partially funded by a grant from the U.S. Department of Education. Representing the members of the partnership are (left to right): Ronald C. Davidson, Director, Princeton Plasma Physics Laboratory; Patrick F. Roche, President, St. Francis Medical Center; Thomas S. Sepe, Vice President, Chief Academic Officer, Mercer County Community College; Pete Korlanko, Shop Chairman, General Motors Inland Fisher Guide Division; and Robert Bowns, Plant Manager, General Motors.

Fusion Power Associates to Meet Here

Fusion Power Associates (FPA) will hold their annual meeting and symposium June 25-26 at PPPL. The symposium theme is "Fusion Facilities Planning for the 1990s." New facilities capabilities for tritium experiments in TFTR and facilities for the Burning Plasma Experiment (BPX) at PPPL will be discussed.

Other topics include: facilities for the International Thermonuclear Experimental Reactor (ITER); the NOVA laser upgrade; the OMEGA laser upgrade; the NIKE Krypton-Fluoride laser project; and proposed supporting facilities such as a Steady State Tokamak, neutron sources for materials testing, and divertor testing facilities.

Other program options, such as upgraded or new light and heavy ion fusion facilities, will be discussed. In addition, systems and design studies of future facilities such as the Laboratory Microfusion Facility, pilot plant and demonstration reactors, and commercial magnetic and inertial fusion reactions will be on the agenda. For further information or registration, contact Ruth Watkins at FPA, (301) 258-0545.

Bowling Awards

The Princeton University Mixed Bowling League held their ninth annual banquet at MAX's 1893 in Hopewell on May 10. The League champs were the Low Rollers. Here are the final standings.

First Place, **Low Rollers**: Matt Lawson, John Luckie, Kim Prutky, Andy Vanisko, Jerry Siminoff

Second Place, **Half-Keglers**: Keith Sapp, Laura Marshall, Jerry Gething, Lori Camaioni, Don Grove

Third through eighth place teams, in order, were: **Fusion Busters**, **Tornadoes**, **Lost In Space**, **Gutter Dusters**, **Strike Force**, and **Head Pins**.

Next year's Bowling League officers will be: President, Matt Lawson; Vice President, George Renda; Secretary, Elmer Fredd; and Treasurer, Bobbie Forcier. If you are interested in joining the League, please contact one of these officers.

New Jersey's 11th District Congressman Dean Gallo (third from right) recently visited the Lab and toured TFTR. Because of Representative Gallo's strong support as a member of the Energy and Water Subcommittee, the House Appropriations Committee recommended that the President's request of \$337.1 for fusion energy in fiscal year 1992 be approved by the House of Representatives. Full funding was approved on May 29. Shown with Congressman Gallo are (left to right): Nan Wells, Director of Princeton University's Office of Governmental Affairs; Rich Hawryluk, TFTR Project Head; Dale Meade, PPPL Deputy Director; Representative Gallo; Ronald Davidson, PPPL Director; and Rush Holt, PPPL Assistant Director.

Photo: Dietmar Krause



TFTR in *National Geographic*

An article on nuclear energy, by Peter Miller, is planned for the August 1991 *National Geographic*. The story is expected to include a photo of the TFTR vacuum vessel.

Blood Tests

The Occupational Medicine Office recently began providing blood studies tests on Wednesday mornings between 8:30 and 9:30 a.m. A phlebotomist from Roche Laboratories comes onsite to draw the blood.

Persons interested in having their blood tested must make an appointment and must have had a physical at the Laboratory in the last

six months. Participants will be required to fast from 12:00 midnight until after the blood has been drawn. For more information and/or to make an appointment, call the Dispensary at extension 3200.

Animals Need Your Help

A local state-licensed wildlife refuge needs your old blankets and towels for animal bedding. The animals also enjoy Apple Jacks and Fruit Loops cereals. Can you contribute? For more information or help relocating problem wildlife, contact Sara Papier at 799-2422 or Marilyn Hondorp at ext. 2656 (evenings at 426-0372). Marilyn also has discount forms for having your pet spayed or neutered.

For Sale

Air Conditioners—Beat the summer rush! Two nearly new units—one a window unit using standard house current; the other a sleeve unit using 220 Volt service, 8,000-10,000 BTU range. Both having original boxes. Discount price on purchase of two. Call Don at 3717.

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TRANSITIONS

Promotion

Dietmar Krause has been promoted to the position of Head of Photographic Services.

Transfer

Sue Hill has transferred to the Personnel Division. She will be working for Sue Murphy in Certification and Training.

Retirement

Marie Steer, Inventory Control Coordinator in Materiel Control, officially retired on June 1, after 10 years of employment at PPPL.

Thank You

I would like to thank everyone for their cards, gifts, and best wishes given in honor of my retirement.
Marie Steer

Remember JUNE 16;



It's Father's Day!