



GENERAL ENGINEERING NEWSLETTER

Department of General Engineering, University of Illinois at Urbana-Champaign

VOLUME 33, NUMBER 1

FALL 1990



Recipients of the Alumni Loyalty Awards are (left to right)
G.R. Armstrong, Gary Allie and Richard Reynolds

G.E. Alumni Board Holds Fall Meeting

The board of directors of the General Engineering Constituent Alumni Association held its annual Fall meeting, Saturday, Oct. 20.

The session was held at 10 a.m. in 112 Transportation Building. In the afternoon, directors attended the annual Homecoming Football Game between Illinois and Michigan State.

President Robert Roads, '71, Jacksonville, IL, presided over the meeting which heard reports from GE Department Head Thomas Conry, Associate Head David O'Bryant and ISGE President Brian Gile.

Prof. Conry discussed the undergraduate program and Prof. Wayne Davis told of the planning for the proposed doctoral program. They also reviewed the appointments of the three new faculty members added this Fall.

Prof. O'Bryant gave a report on enrollment in the department. There are 606 undergraduates this Fall as compared with 528 in 1987 and 31 graduate students in 1990 as compared with 26 three years ago.

"Undergraduate enrollment must be reduced by 60 to about 550 while graduate enrollment should increase to 50," he said.

Brian Gile, ISGE president and ex-officio member of the board, told of the renovation of the student lounge and of ISGE plans for the academic year including Engineering Open House.

A feature of the meeting was the presentation of Loyalty Awards to Gary Allie, '69, Chicago; G. R. Armstrong, '64, Elk Grove, IL; and Richard Reynolds, '53, Rockford, IL; by Lynn Jones of the UI Alumni Association.

Three Receive Appointments To Department Faculty Replacing Retirees

Three persons were appointed to the Department of General Engineering faculty effective Aug. 21, 1990, Department Head T. F. Conry has announced.

The appointments filled the void on the G.E. faculty due to the retirements of John P. Hipkind, Paul Karlstrom, Gordon Martin and Harrison Streeter.

The new appointees are:

Dr. David E. Goldberg, associate professor; Dr. Yong Se Kim, assistant professor; and Bill D. Woodard, adjunct lecturer on a part-time basis.

Goldberg, 37, a native of Detroit, MI, received a BSE in 1975, MSE '76 and Ph.D. '83, all from University of Michigan. Since 1984, he had been a member of the faculty at the University of Alabama.

His principal research interests are machine learning and artificial intelligence; genetic algorithms and the optimization of complex systems; and engineer education. A prolific writer, he has authored or coauthored several books and numerous articles.

Goldberg is a licensed professional engineer in Alabama and Pennsylvania. He also is a member of several professional organizations.

Kim, 29, is a native of Korea. He received a BS(ME), '83, from Seoul National U.; MS(ME), '85, and Ph.D. '90, both from Stanford U.

He joins the GE faculty after serving as a software engineer, Information Systems Division, Fujitsu America, Inc. Previously he was a research and teaching assistant at Stanford.

Kim has collaborated on several publications and other technical reports.

Woodard, 34, received a BS (Econ.), '79, Illinois Wesleyan U.; JD, '82, U. of South Carolina; and MBA, '89, UIUC.

Since 1988, he has served as chief counsel with the US Army Corps of Engineers Construction Engineering Research Laboratory, Champaign. He also is legal counsel with Hobbico, Inc., Champaign.

From 1983 to 1987, Woodard was a partner in the private law firm, Manion, Janov, Devens, Fahey and Woodard, Ltd., Danville. He is a member of the American and the Illinois Bar Associations.

In other business the board decided a possible follow-up of the department's graduates too costly; discussed a request for funds from the Alumni Association; and nominated Tom Fiock, '78, Carterville, IL, for a Loyalty Award.

The board set the Spring Meeting in conjunction with the Annual Design Symposium Day on Friday, May 10, 1991.

From the Department Head GE Department Faculty Receive Numerous Awards



Last spring I reported to you on the new campus general education requirements and progress on our curriculum. Work is still proceeding at the campus level to plan for meeting the demand for the courses that will be necessary to meet these requirements. The current budget constraints— with no money for new programs — make it very difficult to allocate new resources to those departments most impacted by these new requirements. I will continue to keep you informed on the progress of implementation of the new general education program.

The department conducted a national search last year to replace Professors Hipskind, Martin and Streeter, who had retired. We are pleased to announce that two outstanding individuals joined the faculty this summer. Dr. Yong Se Kim (Ph.D., Stanford) joined the University in June as an Assistant Professor in the area of computer aided design and solid modeling. Dr. David E. Goldberg (Ph.D., Michigan) joined the University in August as an Associate Professor. Prior to coming to Illinois, Professor Goldberg was Associate Professor of Engineering Mechanics at the University of Alabama. He received a National Science Foundation Presidential Young Investigator Award in 1985, and is one of the world leaders in the development and application of Genetic Algorithms, computer-based search algorithms based on the mechanics of natural genetics and natural selection. Dr. Vladimir J. Lumelsky plans to join the Department in January 1991. Dr. Lumelsky is presently an Associate Professor of Electrical Engineering at Yale University. His research area is in robotics and sensing. Mr. Paul E. Karlstrom, a local attorney, also retired this year; he taught the Engineering Law course for twenty-seven years. Mr. Bill Woodard, the attorney-adviser at the U.S. Army Construction Engineering Research Lab has joined the faculty on a part-time basis to teach these courses.

Space for faculty offices and research labs remains a chronic problem in the Department. We received some relief this fall with the allocation of laboratory and office space in the Woodshop building. Professor Reis' nondestructive testing laboratory moved to this location, where he now has adequate space to accommodate his growing program. The Technology Audit and Assessment Program office has also been moved to this location.

Work continues on the undergraduate curriculum and the Ph.D. proposal. A faculty retreat has been scheduled for January 1991 at Allerton House. I hope to have more to report to you next Spring.

Members of the Department of General Engineering have been awarded numerous honors in the past five years.

They include:

Scott A. Burns

NSF Presidential Young Investigator Award
Gamma Epsilon Teaching Excellence Award,
Department of General Engineering, UIUC, 1989
Everitt Award for Teaching Excellence, College of
Engineering, UIUC, 1990

James V. Carnahan

Gamma Epsilon Teaching Excellence Award,
Department of General Engineering, UIUC, 1986
Everitt Award for Teaching Excellence, College of
Engineering, UIUC, 1989

Thomas F. Conry

Fellow, American Society of Mechanical Engineers
Technical Editor, *ASME Journal of Vibration,
Acoustics, Stress, and Reliability Design*,
1984-1989

Jerry S. Dobrovolny, Emeritus

Fellow, American Association for the Advancement of
Science

Life Member, American Society of Civil Engineers
Distinguished Service Award, Illinois Society of
Professional Engineers, 1986

Gamma Epsilon Distinguished Alumni Award,
Department of General Engineering, UIUC, 1988

David E. Goldberg

NSF Presidential Young Investigator Award
Capstone Engineering Society Outstanding Research
Award, U. of Ala., 1989

L. Daniel Metz

Dean's Student Advisory Committee Award for Best
Adviser in Engineering, College of Engineering,
UIUC, 1988

David C. O'Bryant

Gamma Epsilon Teaching Award, Department of
General Engineering, UIUC, 1988

Julian I. Palmore

Associate Fellow, American Institute of Aeronautics
and Astronautics

Sigma Xi National Lecturer, 1989-91

Michael H. Pleck

Gamma Epsilon Teaching Excellence Award,
Department of General Engineering, UIUC, 1987

(Continued on page 5)

Lastly, with the retirement of Professor Streeter, we have lost the teacher for our course on "Legal Problems in Engineering Design". However, Mr. Charles H. Mottier (BSGE 1979, JD 1981) has offered to teach a two-hour course next semester on "Patent Law and Related Topics". Mr. Mottier is an attorney with the firm of Leydig, Voit & Mayer in Chicago and practices in the area of intellectual property law. He will commute once every two weeks from Chicago to teach this course.

Thomas F. Conry
Professor and Head



Scott Burns



Mark Spong

TWO RECEIVE PROMOTIONS

Associate Professor Mark Spong has been promoted to professor and Assistant Professor Scott Burns was named associate professor, both effective Aug. 21, 1990, Department Head Thomas F. Conry has announced.

Spong joined the GE faculty in 1984 and was made associate professor in 1986. He received his Ph.D. from Washington U., St. Louis, MO, and was on the electrical engineering faculty at Cornell U. before coming to the UIUC.

Burns was appointed to the faculty in 1985 as an assistant professor. He received his Ph.D. in Civil Engineering from UIUC. He previously served as an undergraduate and graduate assistant in the departments of GE and CE.

Gamma Epsilon Names 1990-91 Officers

Elizabeth Hausler, Plano, IL, has been elected president of Gamma Epsilon for the 1990-91 academic year.

Other officers include: Greg Davis, Belleville, IL, vice president; Cindy Agemura, Skokie, IL, secretary; Gerry Prendergast, Lansing, IL, treasurer; Leslie Arney, Lombard, IL, Engineering Council representative; and Irynne Vallejo, Skokie, IL, publicity chairman.

Professor Brent Hall is faculty advisor.

GE Advisory Committee

The 1990-91 Advisory Committee for the Department of General Engineering is composed of: J. V. Carnahan, W. B. Hall, J. V. Medanic, M. H. Moeinzadeh (CEC), D. C. O'Bryant (Ex Officio, Assoc. Head), and S. D. Thompson.

Faculty Notes

Prof. Scott A. Burns

Prof. Scott Burns has received a \$45,750 grant from Digital Equipment Corp. to investigate optimization of circuit board layouts.

Two articles, "A Monomial-Based Method for Solving of Nonlinear Algebraic Equations," by Scott Burns and A. Locascio; and "Phase Space Representation of Iterative Design Process," by Prof. Burns have been published in the *International Journal for Numerical Methods in Engineering*.

Prof. Burns is author of "Generic Classes of Iterative Behavior in Engineering Design Optimization" that appears in the Proceedings of the 2nd ASME Design Theory and Methodology Conference.

Prof. David C. O'Bryant

Prof. D. C. O'Bryant attended the annual Technical Design Associates meeting Oct. 14-17, in Washington, D.C. He serves on the TDA Governing Board.

Prof. Manssour H. Moeinzadeh

Professor Moeinzadeh has been elected Secretary of the College of Engineering Executive Committee. In this capacity he also will serve as the Secretary of the College of Engineering Faculty, as well as member and secretary of the College of Engineering Administrative Committee.

Professor Moeinzadeh has been elected Program Chair and Chairman-elect (1990-1991) of the Biomedical Engineering Division of the American Society for Engineering Education (ASEE). The 1991 ASEE Annual Conference will be held at New Orleans, June 16-20, 1991 and the Conference theme is "Challenges of a Changing World."

Professor Moeinzadeh attended the 1990 American Society for Engineering Education Annual Conference which was held in Toronto, Canada, June 25-28. At this Conference, he was re-elected as a member of the Board of Biomedical Engineering Division.

Professor Moeinzadeh presented a paper entitled "Three-dimensional Biomechanical Analysis of the Upper Extremity During Wheelchair Propulsion" (co-authored with M. A. Schneller, M. G. Strauss and J. Trimble). The Congress was held at the University of California, San Diego, August 30-September 4, 1990.

Professor and Mrs. Moeinzadeh became the parents of a son on Oct. 20.

Professor Mark W. Spong

An \$18,000 grant from the Univ. of Illinois Manufacturing Research Center (MRC) entitled "Adaptive Force Feedback in Robotic Assembly," has been awarded to Prof. Mark Spong.

He was one of the invited speakers at the "Symposium on Control of Robots and Manufacturing Systems," held Nov. 8-9, 1990, at the Automation and Robotics Research Institute at the University of Texas at Arlington. The title of his presentation was "Robustness of Adaptive Robot Control."

Prof. Spong will be giving the invited plenary talk at the "International Workshop in Adaptive and Nonlinear Control: Issues in Robotics," to be held in Grenoble, France, Nov. 21-23, 1990. The title of his paper will be, "Integral Manifolds and Adaptive Robot Control."

Prof. Spong will attend the IEEE Conference on Decision and Control in Honolulu, Hawaii, December 4-7, 1990 to

(Continued on page 4)

Engineering Open House to be Held March 1-2

The Annual Engineering Open House is scheduled for Friday and Saturday, Mar. 1-2, 1991. Theme for this year's event is "Looking Beyond the Horizon."

Serving as chairman for ISGE is **Bruce Sattley**, senior from Decatur.

Each year hundreds of high school students, parents, faculty advisors and the public from throughout the state visit campus to attend the annual event.

Two Among Honorees Of U. of I. Foundation

Two persons with ties to the Department of General Engineering were honored Oct. 12 at the Annual Fall Meeting of the U. of I. Foundation.

Louis A. Friedrich, '67, of New York City, was elected to the Foundation Board of Directors.

Gertrude Gassmann Reynolds, '58 Education, of Rockford, received the National Network Outstanding Leadership Award. She is wife of **Richard Reynolds**, '53 GE, former president of the GE Constituent Alumni Association

ISGE Provides Impetus To Renovate GE Lounge

The student lounge in 215 Transportation Building has a bright, new look.

Through the efforts of the Illinois Society of General Engineers, walls have been painted and new furniture purchased for the students' use.

ISGE voted last year to use \$1,200 from their treasury surplus for the project. A matching grant of \$1,200 came from Andersen Consulting.

Electronic Data Systems Corp. donated an additional \$1,000 and the Department of Aeronautical and Astronautical Engineering (which shares the Transportation Building with GE) gave \$250. The Department of GE paid for the painting.

Prof. Louis Wozniak who served as ISGE advisor for the past four years coordinated the project along with ISGE officers.

ISGE Elects New Officers

Officers for the 1990-91 academic year have been elected by the Illinois Society of General Engineers.

Brian Gile, senior from Rockford, will serve as president. Others are: **Joseph Macro**, senior, Schaumburg, vice president; **Barbara Timbers**, sophomore, Burr Ridge, treasurer; and **Steve Omachi**, sophomore, Skokie, secretary. **Bruce Sattley**, Decatur, will be Engineering Open House Chairman for ISGE. **Prof. Scott Burns** is faculty advisor.

Faculty Notes (Continued from p. 3)

present two papers. They are "Parameter Identification of Nonlinear Systems," co-authored with **Scott Bortoff**, graduate student in CSL and ECE, and "Stability Analysis of Adaptively Controlled Flexible Joint Robots," co-authored with **Fathi Ghorbel**, graduate student in CSL and M & IE.

Prof. Spong will be on sabbatical leave from January until August, 1991. He plans to divide the period among the following research institutes, performing research in robotics:

- 1) Instituto Politecnico Nacional de Mexico, Mexico City;
- 2) University of Duisburg, Duisburg, Germany;
- 3) Laboratoire d'Automatique de Grenoble, Grenoble, France; and
- 4) Lund Institute of Technology, Lund, Sweden.

Prof. Mark G. Strauss

Prof. Mark Strauss was invited to speak at the National Industry Labor Council Meeting in St. Louis in October. He addressed the topic of maximizing the abilities of a person with a disability through the use of engineering and technology. He is currently serving as a member of the Advisory Board for the State of Illinois Assistive Technology Project and a member of its Committee on 'Training'.

Prof. Strauss was chairman of the session "Rehabilitation Engineering Education Future Needs" at the ASEE Conference in Toronto, June 1990. He will be chairman of the ASEE session, "Bioengineering Specialties—What's Hot and What's Not," this June in New Orleans.

A joint paper co-authored by **Prof. Mark Strauss** and **Prof. Manssour Moeinzadeh** "Three Dimensional Biomechanical

Analysis of the Upper Extremity During Wheelchair Propulsion" was presented at the First World Congress of Biomechanics in San Diego.

Prof. Strauss has submitted a paper to the *Journal of Biomechanics* entitled, "A finite element analysis of the resonant frequency of an in vitro fractured bone."

Prof. Strauss also received an award from the United Way, recognizing his community service through the Rehabilitation Engineering Student Projects program, which he directs.

Professor L Daniel Metz

Prof. Dan Metz has been busy with his research in vehicle dynamics and control. Last year, he and several of his undergraduate and graduate students published several papers and results.

Along with **Prof. Roland Ruhl**, **Professor Metz** published SAE Paper No. 900106, "Skidmark Signatures of ABS-Equipped Passenger Cars," which showed that ABS-equipped cars leave essentially no skidmarks whatsoever when braked under maximum braking conditions. This result was later confirmed by independent experiments performed in California. He also was asked to give an invited lecture on ABS braking dynamics at the IATAI Accident Reconstruction Conference held at Illinois State University in October, 1990. With graduate student **Akira Ohnuma**, who now works for **Komatsu, Ltd.**, in Japan, **Professor Metz** published SAE Paper No. 891977, entitled "Controllability and Stability Aspects of Actively Controlled 4WS Vehicles;" this paper also appears in the *Transactions of the SAE*. **Professor Metz** won the Best Presentation Award at the 1989 SAE Passenger Car

(Continued on page 6)



Former GE Student Pitches in Majors

Terry Wells, former GE student from Kankakee and now a professional baseball pitcher, was called up in July 1990 by the Los Angeles Dodgers.

He got his first major league start July 3 against the Chicago Cubs. Although he was relieved in the 7th inning trailing 4-3, the Dodgers rallied to win the game.

On July 16, he won a victory over the St. Louis Cardinals at Busch Stadium.

Wells pitched for the UI baseball team 1982-84. The hard-throwing southpaw led the team in strikeouts in '83 and tied for the team lead in wins in '84. He was originally drafted in '85 by the Houston Astros and traded to the Dodgers early this year.

He was pitching for the Triple-A Albuquerque Dukes with a 7-3 record when he was added to the L.A. roster replacing a pitcher who was put on the disabled list.

Later in the season he was returned to the minor league club. Wells was enrolled in GE classes from '81 to '86.

GE Professor Visits and Lectures in China

This summer, Prof. and Mrs. Wayne J. Davis, were invited to tour China as guests of the Chinese Academy of Science. During their 16-day stay, they visited Beijing, Urumqi, Xi'an and Shanghai. In Urumqi, Professor Davis presented his research in the modeling and control of advanced manufacturing systems at the Xinjiang Institute of Physics.

He also toured the Real-time Simulation Laboratory which had been established by Prof. Hao Wang after his year-long collaboration at the Department of General Engineering during the 1988-89 academic year.

In Xi'an, Professor Davis made presentations to Institute of Systems Engineering at the Jiatong University where he discussed his models for real-time decision-making. In Shanghai, he visited the Shanghai Coking Company where Prof. Wang had designed and implemented several industrial controllers for the coking process.

Professor Davis' tour was unique from several perspectives. First, he and his wife were touring as individuals, and therefore, had an unique opportunity to interact with Chinese citizens. In particular, they shared some very special moments with Professor Wang and his family, other professors and graduate students. Their trip included eight banquets in their honor.

The most memorable moment was the five-hour trip into the Gobi desert where they toured the Grotto of the 1000 Buddhas and walked along the Silk Trail.

Other points they visited included the Great Wall, the Summer Palace, the Imperial Palace, and the Tomb of the Terra Cotta Warriors. In retrospect, it was truly an opportunity to experience an unique civilization, the Chinese people and the research being addressed in their institutes and universities.

Returning to the academic life at the University of Illinois, Professor Davis continues to address the research issues in the modeling of advanced manufacturing systems. Currently, he is performing collaborative research with Caterpillar, Inc., Motorola, Inc. and the National Institute of Standards and Technology. Building upon his research experience, Professor Davis expects to introduce a new course this spring in Decision-making and Control for Manufacturing Systems which will be offered in the newly initiated Manufacturing Option for undergraduate students.

Graduate Assistants

There are a total of 42 teaching or research assistants in the Department of General Engineering for the fall semester. In addition, one student is on a fellowship.

Faculty Awards (Continued from page 2)

Henrique L. M. dos Reis

Fellow, British Institute of Non-Destructive Testing

Mark W. Spong

Best Paper Award, 1987 Robotics and Expert Systems Symposium

Mark G. Strauss

Outstanding Biomedical Engineering Student Award for Teaching, Research and Academic Standing, University of Texas at Arlington, 1985

Harrison Streeter

Stanley H. Pierce Award, College of Engineering, UIUC, 1988

Advisors List for Advising Excellence, College of Engineering, UIUC, 1989

Deborah L. Thurston

NSF Presidential Young Investigator Award

Thomas R. Woodley

Advisors List for Advising Excellence, College of Engineering, UIUC, 1989

Louis Wozniak

Gamma Epsilon Teaching Excellence Award, Department of General Engineering, UIUC, 1985
Advisors List for Advising Excellence, College of Engineering, UIUC, 1989

Faculty Notes (Continued from page 4)

Conference in Dearborn, Michigan, for his presentation of the paper.

SAE Paper No. 900760, which also will appear in the *Transactions of the SAE*, was published with three G.E. undergraduate students, Cheryl Akouris, Craig Agney and Mark Clark, and is entitled "Moments of Inertia of Mounted and Unmounted Passenger Car and Motorcycle Tires." In keeping with his interest in Indy Car racing, Professor Metz made sure that a few Indy tires were included in the results! Another paper on "Emergency Braking Dynamics of Ground Effects Open Wheeled Racing Cars" will appear at the 1991 Autotechnologies Conference in January of 1991, being held in Monte Carlo, Monaco. This is a continuation of Professor Metz's research into racing vehicle safety, and may ultimately have applications to road car accidents.

With graduate students Kent Miller (GE) and Dave Alter (ME), two papers will soon appear in 1991 on rollover dynamics of high-c.g., short wheelbase sport/recreational vehicles and 4WS dynamics.

Professor Metz continues his accident reconstruction research and consulting, and still works for USAC and Jim Russell

Racing Drivers School.

Professor Louis Wozniak

A paper, "A Digital Governor for Hydrogenerators," co-authored by Prof. Louis Wozniak with L. D. Murphy and T. A. Whittemore has been awarded the 1988 IEEE Power Generator Best Paper Award in October 1990. The paper is considered significant as a pioneering work in application of digital control to hydrogenerators.

Prof. Wozniak has designed optimal controllers that minimize speed deviations due to load demand changes as well as digital controllers of the gain scheduling type. He has supervised the development and on-site performance testing of these controllers on hydrogenerators at plants under supervision of the Bureau of Reclamation, U.S. Dept. of the Interior.

Two papers, "Digital Simulation of an Impulse Turbine: The Bradley Lake Project," and "Control Synthesis for an Impulse Turbine: The Bradley Lake Project" were presented at the IEEE Power Engineering Society Summer Meeting at Minneapolis, MN, July 15-19. They were co-authored by Prof. Wozniak, L. F. Collier, and J. Foster. Both will appear in the *IEEE Transactions on Energy Conversion*, 1990.

ARE YOU A MEMBER OF THE ALUMNI ASSOCIATION?

More than 115,000 alumni are—including approximately 90,000 who are life members. As a member you'll receive the Illinois Alumni News or U of I Chicagoean, as well as publications of your college or departmental constituent association. You'll qualify for our tour program, our insurance program and the annual family camp. And you'll continue your loyal involvement with something great—your University of Illinois.

To join, either as an annual member or as a life member, return this form with your check to: Alumni Association, 227 Illini Union, 1401 West Green Street, Urbana, Illinois 61801. (Make your check payable to the University of Illinois Alumni Association.)

Annual Membership _____

Single — \$20 Husband-wife — \$25

Life Membership _____

Single — \$350 (installment plan \$400 — \$20 down, 4 yearly payments of \$95)
 Husband-wife — \$400 (installment plan: \$450 — \$20 down, 4 yearly payments of \$107.50)

Life Membership for Recent Graduates (up to two years out of school) _____

Single — \$300 (installment plan \$325 — \$10 down, 4 yearly payments of \$78.75)
 Husband-wife — \$350 (installment plan: \$375 — \$10 down, 4 yearly payments of \$91.25)

Name _____ Major _____ Year of degree _____

Address _____ City _____ State _____ Zip _____

Spouse's name (if an alumnus) _____

Spouse's college _____ Spouse's major _____ Year of degree _____

Alumni Notes

1951 Donald M. Braught, Burbank, CA, retired in Jan. 1990 as a Research Specialist, Lockheed Aeronautical Systems Co., Burbank, CA.

1957 Roland Eugene Ruhle, MBA '78, Pepperdine U., has closed out his international consulting business to accept a position at Rice University, Houston, TX. He is Assistant Placement Director of the Jones Graduate School of Administration at Rice.

1961 Donald Andrew Cunningham, a manufacturer's representative, has moved to Lockport, IL.

1963 Champ W. Davis, Law '66, has joined the law firm, Lament, Kanwit and Davis, Chicago. He continues his practice in commercial litigation and business counseling. He resides in Oak Brook, IL.

1964 Robert D. Leonard, BS (Communications) '65, is product manager, eliax Products, Andrew Corp., Orland Park, IL. He recently presented a paper "New Fire Protection Requirements for Indoor Installation of Coaxial Cable and Waveguide," at the Broadcast Engineering Conference, National Association of Broadcasters. Leonard is a resident of Winnetka, IL.

1967 Terry L. Bradley, Ph.D. (ME) '72, MIT, Flemington, NJ, has accepted a position as Vice President and General Manager, Baldeoin Technology Corp., Clinton, NJ.

Michael Dinitz, MBA '71, Northwestern U., has been named Manager, Industry Consulting, XL/Datacomp, Hinsdale, IL. He is a resident of Arlington Heights, IL.

John M. McKissney of Indian Head Park, IL, has been appointed Manager, Project Engineering, Nalco Chemical Co., Naperville, IL. He also was this year's recipient of the Chairman's Technical Achievement Award for his design of Nalco's Super Absorbent Polymer Plant.

1970 Robert P. Hoffman, MBA '76, U. of Mich., has been named staff engineer, advanced development for automotive instrumentation, Delco Electronics Corp., Kokomo, IN. He has moved from Grand Blanc, MI, to Noblesville, IN.

1973 Michael S. Merovek, Romco, MI, is purchasing manager, Augat Automotive Division, Mt. Clemens, MI. In March 1990 he completed American Production and Inventory Control Society Certification.

Neal C. Nealis, DDS '79, conducts a dental practice in Chicago specializing in restorative dentistry. He resides in Oak Park, IL.

Terry N. Snyder, Sacramento, CA, has accepted appointment as Water Resource Control Engineer with the California State Water Resource Control Board. He is project manager of Bay-Delta Watershed Water Availability Use Study. The \$300,000 contract will monitor flows into the San Francisco Bay-Sacto San Joaquin River Delta estuary for use in Water Right Decision of 1991.

1976 Neal Dean Siegel is President of Tri-Media Publications, Inc., Skokie, IL. The newly formed company publishes card decks to churches and develops mailing lists of pastors and music leaders.

1977 Caleb H. Didriksen III, JD '82 Tulane U., is senior partner in a new law firm, Didriksen and Carbo, PLC, in New Orleans, LA.

Gregory R. Martin, MBA '79, Western Ill. U., is District Manager of Bently Nerada Corp. in Pennsylvania.

Jeffrey M. Olson, JD '81, U. Mich., is a partner in the Los Angeles law firm, Lyon & Lyon. The 65-lawyer firm specializes in Intellectual Property Rights. He and his wife, Branka, BA (Arch.) '78, reside in Pacific Palisades, CA.

1978 Mark S. Benigni of North Ogden, UT, has been promoted to Manager, Ford Programs, Morton International, Ogden, UT. The firm is a major world-wide supplier of inflatable restraints for automobiles.

Daniel J. Mendelson, West Bloomfield, MI, has taken a position as marketing manager of Hume Snow-Melting Systems, Inc., Royal Oak, MI. For the past nine years he was in technical sales and sales management with the firm.

Philip J. Morettini, MBA '81, U. of Detroit, has been named product marketing manager of Horizons Technology, Inc., San Diego, CA. The company is a defense contractor specializing in hi-tech software solutions for PC's and workstations.

Cathy L. Ward is National Sales Manager, Fire and Security, Honeywell, Minneapolis, MN.

1979 Jay Richard Goldberg, Libertyville, IL, has received his second patent entitled "Ureteral Stent System."

Todd C. Green has assumed the position of Senior Project Engineer R&D, Cobe Laboratories, Inc., Lakewood, CO.

Daniel Kirk Mankivsky, Naperville, IL, has been named Strata-Therm Product Manager, Chicago Bridge and Iron Co., Oak Brook, IL.

Ruben Caballero Miramontes holds the position of Associate Gas Utilization Engineer, Peoples Gas Light and Coke Co., Chicago. He recently completed an assignment with the Gas Transportation Department as Assistant to the Administrator.

Jeffrey Richard Wallace has been promoted to Regional Sales Manager, Liquid Carbonic I/M Corp., N. Aurora, IL. He is responsible for industrial gas (nitrogen, oxygen and argon) sales for industrial and medical applications in the Midwest.

1980 David L. Boldt, who resides in Fairfield, IL, is a Production Engineer, PSI Energy, Gibson Generating System, Owensville, IN.

Silvana Medina Freestone, MBA '84, Harvard, is Director, OEM Sales, Zenographics, Inc., Irvine, CA. A resident of Poway, CA, she is an evening student at the Univ. of San Diego School of Law.

Bruce O. Gonshot, MBA '90, Marquette U., is an OEM Sales Engineer, Westinghouse Electric Corp., Elm Grove, WI.

Frank Clayton Fuller, Medford, NJ, has become a flight officer with TWA, flying 747s out of New York City. He recently left the USAF after 9 1/2 years service.

Rosemarie Orehek Lowry, MBA '85, U. of Minn., is presently living in Holland where her husband's job has taken them.

Jeffrey O. Nelson has been named Marketing Manager, Sundstrand, Dayton, OH.

LCDR John W. Peterson, USN, is the Combat Systems Officer on the U.S.S. Callaghan, a guided missile destroyer. The ship is undergoing an over forty million dollar complex overhaul and new threat upgrade at the Long Beach Naval Shipyard. Lt. Cmdr. Peterson has orders to become Commanding Officer of U.S.S. Avenger, a mine countermeasures ship, out of Charleston, SC.

1981 Joseph A. Brunty, MS (ME) '87, Ph.D. '90, U. of Ala.-Huntsville, is an Aerospace Engineer, NASA, George C. Marshall Space Flight Center, AL.

Harry D. Daniels has accepted the position of engineering specialist, Aerodynamic Noise Control, Fisher Controls International, Marshalltown, IA.

Susan Jane Polka McDermott has moved from Glendale, AZ to Eagan, MN.

Gary Richard Steele has been appointed plant manager, Unocal Corp., Savannah, GA. The plant blends and packages lubricating oils and greases for the southeast market.

Roger M. Stein, JD '84, has joined the law firm, Wallenstein, Wagner and Hattis, Ltd., Chicago. He will continue his practice of intellectual property law (patents, trademarks and copyrights).

Gregory A. Willmer is District Manager, Johnson Controls, Union, NJ. He resides in Nazareth, PA.

1982 Timothy L. Filbert, MS '85, has accepted a position as Product Marketing Engineer, Applied Materials Inc., Santa Clara, CA. He was formerly employed by Lockheed Missiles and Space Co.

Paul Victor Fryling, MBA '88, U. of Wis., is a Senior Financial Analyst, Amex Life Assurance, San Rafael, CA.

David M. Lipari, MBA '84, has been promoted to Market Planning Manager, Motorola, Inc., Schaumburg, IL. He resides in Wheeling, IL.

Larry R. White, MS '85, has been employed as instructor of operations management, Weatherhead School of Management, Case Western Reserve U., Cleveland, OH.

1983 James William Bergeron has been temporarily transferred to Casper, WY, as Maintenance Supervisor of Amoco Pipeline.

Samuel G. Papandreas, MS and DDS '89, Baylor U., has completed residency in Orthodontics and opened a practice in Medina, OH. He resides in Lakewood, OH.

Marc A. Spoor has been named Manufacturing Research and Development Factory Support Engineer, Boeing Commercial Aircraft Group, Seattle, WA.

Michael J. Gust, Glen Ellyn, IL, has accepted appointment as Senior Marketing Representative, Hoechst-Celanese Corp., Schiller Park, IL.

1984 Paul A. Hagberg, Chicago, IL, is Area Manager, Network Operations, Illinois Bell Telephone Co., Chicago, IL.

1986 Dale Ann Harper, Roselle, IL, is employed by Miller Fluid Power, Bensenville, IL.

1987 Lois Mayer-Yep holds the position of Mechanical Engineer with John Crane, Inc., Morton Grove, IL.

Franz Michael Pachi will be working in Japan for the next two years as Senior Options Trader, CRT Japan, Inc., Tokyo, Japan.

Mary Beth Prickett, Chicago, IL, is a Sales Engineer, Molex Inc., Lisle, IL.

1988 Craig S. Agney recently moved to Columbus, OH, to accept a position as Marketing Engineer, GE Superabrasives, Worthington, OH.

Jeffrey A. Baker is enrolled in the MBA program at Texas A&M University.

Jacquelyn Sue Beller, MS '90, has accepted employment as Pre-Sales Consultant-Financial Services Division, Oracle Corp., New York, NY.

Kevin Russell Para has been named Market Development Specialist, Ferro Corp., Independence, OH. He resides in Laguna Beach, CA.

Jama L. Thurman is a General Engineer with the U.S. Department of Energy, Washington, D.C. He makes his home in Falls Church, VA.

Grant J. Van Voorst is employed as an engineer by Van Fab, Inc., Union Hill, IL. He is enrolled in The Graduate School of Business, U. of Chicago.

1989 Bruce P. Darata, Chicago, has accepted a position as Design Engineer, Industrial Noise Control, Addison, IL.

Lt. Brad Schruppf, USAF, is enrolled at Texas A&M U. studying for a degree in meteorology through the Air Force Institute of Technology Basic Meteorology Program.

Karen Ann Shineflug is employed as an Engineer on Engineering Professional Development Program, Abbott Laboratories. She is currently on assignment in Dallas, TX.

Greg Vydra, MS (Ind.Eng.) '90, Northwestern, has accepted a position as Operations Research Consultant, ZS Associates, Evanston, IL.

1990 Neal Bennett Rosenblum is a design engineer with Delco Products Division, General Motors Corp., Dayton, OH. He resides in Vettering, OH.

**Send us your personal items.
Keep your address current.**