

## New catalysts may increase hydrogen production

SYLVIA CARSON

A NEW class of catalysts created at Argonne may help scientists and engineers overcome some of the hurdles that have inhibited the production of hydrogen for use in fuel cells.

Argonne chemist Michael Krumpelt and his colleagues in Argonne's Chemical Engineering Division used "single-site" catalysts based on ceria or lanthanum chromite doped with either platinum or ruthenium to boost hydrogen production at lower temperatures during reforming. "We've made significant progress in bringing the rate of reaction to where applications require it to be," Krumpelt said.

Most hydrogen produced industrially is created through steam reforming. In this process, a nickel-based catalyst is used to react natural gas with steam to produce pure hydrogen and carbon dioxide.

These nickel catalysts typically consist of metal grains tens of thousands of atoms in diameter that speckle the surface of metal-oxide substrates. Conversely, the new catalysts that Krumpelt developed consist of single atomic sites imbedded in an oxide matrix. The difference is akin to that between a yard strewn with several large snowballs and one covered by a dusting of flakes. Because some reforming processes tend to clog much of the larger catalysts with carbon or sulfur byproducts,

smaller catalysts process the fuel much more efficiently and can produce more hydrogen at lower temperatures.

Krumpelt's initial experiments with single-site catalysts used platinum in gadolinium-doped ceria that, though it started to reform hydrocarbons at temperatures as low as 450 degrees Celsius, became unstable at higher temperatures. As he searched for more robust materials that would support the oxidation-reduction reaction cycle at the heart of hydrocarbon reforming, Krumpelt found that if he used ruthenium – which costs only one percent as much as platinum – in a perovskite matrix, then he could initiate reforming at 450 degrees Celsius and

still have good thermal stability.

The use of the  $\text{LaCrRuO}_3$  perovskite offers an additional advantage over traditional catalysts. While sulfur species in the fuel degraded the traditional nickel, and to a lesser extent even the single-site platinum catalysts, the crystalline structure of the perovskite lattice acts as a stable shell that protects the ruthenium catalyst from deactivation by sulfur.

Krumpelt presented an invited keynote talk describing these results during the 234th national meeting of the American Chemical Society in Boston from August 18 to 23. Seventeen other Argonne researchers also presented their research at that meeting. ■

## Hispanic engineering organization honors Argonne researchers

Two Argonne researchers won coveted 2007 achievement awards from the Hispanic Engineer National Achievement Award Corporation (HENAAC).

Juan Carlos Campuzano, an Argonne Distinguished Fellow, was named a recipient of an Outstanding Technical Achievement Award and Monica C. Regalbuto, head of the Process Chemistry and Engineering Department, won a Professional Achievement Award.



Campuzano



Regalbuto

The HENAAC Awards, presented annually for the past 18 years, recognize some of the nation's top engineers, scientists and technologists of Hispanic heritage. The winners are selected, in part, based on their professional accomplishments and potential as a role model for young people in the Hispanic community.

Campuzano, Regalbuto and other 2007 award winners will be honored at the 19th annual HENAAC conference Oct. 11-13 in San Diego.

As an Argonne Distinguished Fellow, Campuzano holds the highest of all scientific ranks at the laboratory. Only two dozen Argonne employees currently hold the rank.

Campuzano, who works in the Synchrotron Radiation Studies Group in the laboratory's Materials Science Division (MSD), is credited with landmark advances in the field of high-temperature superconductivity.

(See "HENAAC" on page 2)

## Hydrogen-fueled demonstrator cars stationed at Argonne

BMW is demonstrating a fleet of 10 Hydrogen-7 cars at The BMW Championship at Cog Hill Golf and Country Club Sept. 3-9. The laboratory provides a safe, secure location for a temporary hydrogen refueling station. ■



A BMW technician fills the hydrogen tank. The Hydrogen-7 can travel about 125 miles on a full tank of hydrogen, and another 300 or so on a full tank of gasoline. *Photo by George Joch*



Argonne Director Robert Rosner tries out the Hydrogen-7. *Photo by George Joch*



13th Dist. U.S. Rep. Judy Biggert gets tips on driving a hydrogen-powered BMW from Argonne Director Robert Rosner. *Photo by Wes Agresta*



A hydrogen-fueled BMW Hydrogen-7 arrives at the refueling station near Building 360. *Photo by George Joch*



U.S. Senator Dick Durbin (Illinois) visited Argonne August 29 as part of the "Green Transportation" event. Here, Transportation Technology Research and Development Center Director Larry Johnson, Applied Science and Technology Program Manager Mark Petri, Senator Durbin, and Laboratory Director Robert Rosner listen as Center for Transportation Research Director Don Hillebrand (light shirt) explains how Argonne's Mobile Advanced Technology Testbed is used for technology evaluation. *Photo by George Joch*

## HENAAC

(Continued from page 1)

“Dr. Campuzano’s accomplishments in condensed matter physics span surface science, correlated electron materials and angle resolved photoemission,” said George W. Crabtree, MSD director. “His research in high-temperature superconductivity has laid many of the foundations of our knowledge of this forefront field. He has built a world-renowned program at Argonne integrating experiment and theory, trained and mentored an outstanding group of young condensed matter scientists and dramatically expanded the reach of photoemission as an experimental tool to probe correlated electron behavior in solids.”

As head of the Process Chemistry and Engineering Department, Regalbuto leads approximately 30 scientists, engineers and support staff in the development of technologies for the recycling and safe disposal of spent nuclear fuel.

“Monica is at the forefront in conducting and directing research essential to the nation’s energy security,” said Diane Graziano, acting director of Argonne’s Chemical Engineering Division. “Energy supply alternatives to fossil fuels, including nuclear and renewables, will be required to meet the steeply growing demand for energy while minimizing the consequences of carbon dioxide production and global warming. The nuclear separations technologies being developed by Monica and her team are providing solutions to the complex problems of spent fuel and proliferation that are currently constraining the expansion of nuclear energy.”

Graziano called Regalbuto “a world class engineer, leader and role model.”

Regalbuto joined Argonne in 1988. In 1996, she became a senior research engineer at BP Amoco, where her responsibilities included developing new technologies for cleaner fuels. She returned to Argonne in 2001 and has been at the laboratory since.

She was a founding member of the Hispanic/Latino Club at Argonne and is active in the club’s outreach efforts to elementary and secondary schools. ■

## Howard appointed manager of special initiatives

MATTHEW HOWARD has joined Argonne as manager of special initiatives. In this position, he will be responsible for performance measures tracking, developing new approaches for the preparation of materials for the Board of Governors, offering resources for communications activities and leading and developing measures for the dashboard project, which enables decision makers to monitor the progress of key laboratory objectives.

Howard is a seasoned communications professional with more than 14 years experience in leadership roles involving strategic communications, integrated marketing and business development for organizations in the field of education, and particularly higher education.

Before joining Argonne, Howard served as founder and director of the Media Initiatives Group at the University of Chicago — an initiative of the provost’s office. In that role, Howard devised and implemented strategies and methods to improve communications between the university and its many audiences, raise the institution’s profile in a broad range of media and extend the university’s brand to a global audience.

Prior to that assignment, Howard was a senior producer at a firm that developed online education programming, a senior editor and producer at a start-up company that created online K-12 educational programming and an assistant editor at the University of Chicago Press.

A recipient of several honors and awards, including two certificates of merit at the Chicago International Film Festival, Howard was visiting scholar at the Bread Loaf Writers’ Conference, a renowned retreat for emerging novelists and writers, and a visiting lecturer at the Vermont Studio Center, an international artists’ and writers’ residency program.

Howard holds an M.B.A. degree from the University of Chicago Graduate School of Business, an M.A. degree in English from Miami University and a B.A. degree in English from the University of Rochester. ■

## Argonne scientists probe ‘doubly-magic’ exotic nucleus

DEVELOPING good predictive powers of how all nuclei work is critical to advance our understanding of the universe. The vast nuclear landscape, which is thought to consist of about 6,000 isotopes, is not well charted, and half the nuclei remain unknown.

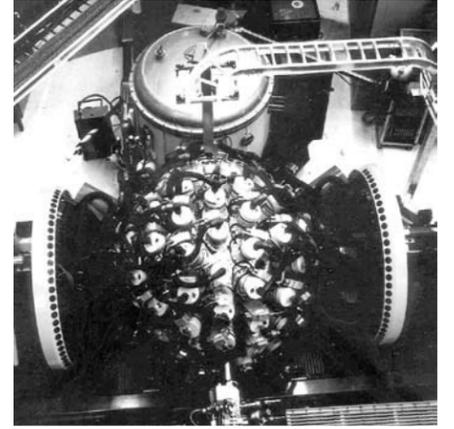
Only about 300 isotopes are stable and exist in the world around us. A lot has been learned about these stable nuclei, but Argonne researchers are developing techniques to uncover the secrets of some of the most unstable and exotic counterparts.

While the exotic isotopes are not normally present on earth, some of them play critical roles in the working of the stars, especially in the element-producing process of nucleosynthesis.

Darek Seweryniak and his colleagues from Argonne’s Physics Division in collaboration with scientists from the University of Maryland, University of Notre Dame and University of Edinburgh, have focused their attention on an isotope of tin, tin-100 ( $^{100}\text{Sn}$ ), one of the very rare “doubly-magic” nuclei. The doubly-magic assignment refers to the special cases where both protons and neutrons fill their quantum shells so that super-stability is achieved.

The properties of stable doubly-magic nuclei, such as oxygen-16 ( $^{16}\text{O}$ ), calcium-40 ( $^{40}\text{Ca}$ ) and lead-208 ( $^{208}\text{Pb}$ ) are well known, but the challenge is to determine the extent to which current models can be extrapolated to describe nuclei situated far from the line of stability, in this case, near the “proton dripline,” where nuclear existence ends. Establishing the properties of this nucleus and its immediate neighbors builds a solid platform from which the properties of all proton-rich intermediate mass nuclei can be developed. To date, only a handful of  $^{100}\text{Sn}$  nuclei have ever been synthesized, in France and Germany, but almost nothing is known about its shell structure.

Using the Argonne Tandem Linac Accelerator System (ATLAS) facility in a 10-day experiment, the researchers



Researchers from Argonne’s Physics Division, in collaboration with scientists from the University of Maryland, University of Notre Dame and University of Edinburgh, are uncovering secrets of exotic nuclei using Gammasphere, the world’s most powerful gamma-ray detector, and the Fragment Mass Analyzer.

started by synthesizing tin-101 ( $^{101}\text{Sn}$ ) and measuring its lowest excited state.  $^{101}\text{Sn}$  consists of a  $^{100}\text{Sn}$  core with the extra valence neutron orbiting in discreet quantum states in the field of the core.

Gamma rays emitted during the transition between these states were detected and analyzed in Gammasphere, the world’s most powerful gamma-ray detector, and  $^{101}\text{Sn}$  nuclei were identified with the Fragment Mass Analyzer. The properties of the gamma rays reveal the sequence of states and their spacing, and can be used to directly challenge the reliability of contemporary nuclear models.

In the short term, the researchers expect to find further quantum states in  $^{101}\text{Sn}$  and learn more about the core this way. However, the experiment provides a key technical step toward the study of  $^{100}\text{Sn}$  itself in the future.

The detailed results of these findings were published in the journal *Physical Review Letters* in July. [Phys.Rev.Lett. 99, 022504 (2007)]

Funding for this work was provided by the Department of Energy’s Office of Nuclear Physics, part of the Office of Science. ■

## Sha transforms understanding of multiphase flow in porous media

WILLIAM SHA (ET-retired) has received the 2007 Samuel Untermyer II Award from the American Nuclear Society. The award recognizes Sha’s pioneering work in development of a novel porous media formulation for multiphase flow conservation equations. These improvements resulted in major advancements in the state-of-art of multiphase flow with far-reaching implications and benefits for water-cooled reactor components and systems.

Sha served at Argonne for more than 30 years, most recently as a senior nuclear scientist and director of the laboratory’s Analytic Thermal Hydraulic Research Program and Multiphase Flow Research Institute. He retired from Argonne in 1997.

Sha was asked to present his recent work, “Novel Porous Media

Formulation for Multiphase Flow Conservation Equations,” at the meeting of the Thermal Hydraulic Division Meeting of American Nuclear Society in Boston. Sha’s work formulates the conservation equations of mass, momentum and energy for multiphase flow in differential-integral form in contrast to a set of partial differential equations as they currently appear in the literature.

Sha’s recent work on this topic was published in *Nuclear Engineering and Design* (May, 2007).

The American Nuclear Society established the Samuel Untermyer II Award to recognize pioneering work in the development of safe, water-cooled nuclear power reactors. The award consists of an engraved bronze medal and a \$2,500 monetary award. ■



William T. Sha (ET-retired), center, receives the American Nuclear Society’s 2007 Samuel Untermyer II Award. At left is Sandy Untermyer, eldest son of the award’s namesake, and nuclear society honors and awards chair Jack Ohanian.

### EMPLOYEES ARE REQUIRED TO WEAR BADGES AT ALL TIMES

Argonne Security reminds employees that all employees and visitors must wear badges or passes so they are clearly visible while on the Argonne site including those who are walking or jogging.

Anyone not wearing a badge should be politely challenged to determine whether or not they belong on the site. Security may be asked to perform the check. To report suspicious persons, call the protective force at ext. 2-5730 or, if warranted, 911.

**NEED A RIDE TO THE UNIVERSITY OF CHICAGO? A FREE SHUTTLE BUS MAKES ROUND TRIPS EVERY WORK DAY. FOR MORE INFO, SEE [www.anl.gov/Visiting/shuttle.html](http://www.anl.gov/Visiting/shuttle.html)**

## ARGONNE'S SUPPORT FOR CHANGE-OF-STATION IN LINE WITH OTHER LABS

Many issues related to compensation, travel expenses and opportunities for promotion for employees who accept change-of-station assignments have been addressed to make Argonne's policies consistent with those at other national laboratories, said Assistant Chief Financial Officer Betsy O'Connor (OCF-ACT). The changes to the policy are outlined below:

Employees on change-of-station assignments are now classified as "extended travel," and will receive 80 percent of the lodging per diem for that location, paid monthly by direct deposit.

While the per diem must be used for living expenses, the amount spent on rent versus other necessities is up to the employee.

Purchases will be covered by the per diem and so will not have to be itemized, and keeping receipts is no longer necessary.

Argonne will pay for employees to ship up to 1,000 pounds of belongings to their new location.

The laboratory will grant cash advances for security deposits or other set-up costs.

The laboratory will reimburse employees on change-of-station assignments for round-trip travel between Chicago and their new residence.

There are no tax consequences for assignments of less than one year. However, if the assignment is extended for longer than one year, Argonne will compensate the employee for the additional income tax burden.

For more information on the financial aspects of extended assignments, contact Pat Herman (OCF-ACT) at [pherman@anl.gov](mailto:pherman@anl.gov) or ext. 2-7196.

## HR PLANS 'HEALTH FAIR 2007'

"Health Fair 2007" will be held at Argonne Wednesday, Sept. 19, from 11 a.m. - 2 p.m. in the Building 213 Cafeteria.

Argonne health plan vendors, medical department staff and other healthcare vendors will present healthcare information in an interesting and interactive manner.

Free activities will include chair massages, computerized foot analyses, body weight and body mass index analyses, body composition and postural fitness analyses, blood pressure testing, assessments of personal and work life balance, lessons on nutrition, weight loss, sleep disorders and treatment options and other topics.

The Health Fair is sponsored by Human Resources.

## HR CLASSES

Performance Development has space available in the following courses in the Critical Conversation Series:

"Resolving Conflict and Moving Toward Solutions" (HR385) — Thursday, Sept. 13, 1 - 3:30 a.m., Bldg 201, Room 190.

"Fitness for Duty" (HR226) — Wednesday, Sept. 19, 1 - 5 pm., Building 212, Room A157.

These training opportunities are offered to support employees and their work at Argonne. Contact Betty Iwan at ext. 2-3410 for more information.

## NOMINATIONS SOUGHT FOR AWARDS

Three award programs are currently seeking nominations:

**Gustavus John Esselen Award for Chemistry in the Public Interest:** This award recognizes a chemist for outstanding achievement in scientific and technical work that contributes to the public well-being. The winner of this award will receive a \$5,000 prize and a medal of recognition.

More information is available at their Web site: [www.nesacs.org](http://www.nesacs.org).

Nominations must be received by Monday, Oct. 15.

**Sofja Kovalevskaja Award:** This award offers up to \$2.26 million over five years in "risk capital" for highly acclaimed young researchers from all fields, sub-disciplines and nationalities. The funds enable recipients to conduct independent research and build a team at an installation or institution in Germany, largely unfettered by administrative constraints.

More information is available online: [www.humboldt-foundation.de/EN/PROGRAMME/PREISE/KOVA.HTM](http://www.humboldt-foundation.de/EN/PROGRAMME/PREISE/KOVA.HTM).

Applications must be received by Jan. 4.

The Millennium Prize Foundation is soliciting nominations for the 2008 **Millennium Technology Prize**.

The prize is given every two years to a revolutionary invention that "promotes quality of life, contributes to the realization of humane values and encourages sustainable development."

The winner of the Millennium Prize receives 1,000,000 euros (\$1.3 million). Nominations for the award must be received by the Millennium Prize Foundation by Oct. 1.

Nominations should be sent to Cindy Wilkinson (C&PA), Building 201, Room 258.

## SAFETY PRESENTATION MAKE-UP SESSIONS ARE ONLINE

Employees who were not able to attend ISM Day sessions on July 19 are required to complete a make-up training session online by Friday, Sept. 28. The training is now available online. Employees without computer access may contact Tim Ortiz at ext. 2-2846 to schedule a time in the EQO-Training computer lab in Building 202.

<https://www.wbt.anl.gov/CourseContent.asp?COURSENO=EQO116>

## ARGONNE RUNNING CLUB TO SPONSOR DIVISIONAL TROPHY RUN AND WALK

The Argonne Running Club will sponsor a run and walk at noon on Wednesday, Sept. 19. The event will begin at Building 200. The run is about three miles, and the walk is about two. This is a team event where teams of three or more runners and walkers are scored by their finishing positions; a team trophy will be awarded.

All employees and their guests are welcome.

There will be refreshments and a raffle at the finish. Participants can enter the drawing for one of two \$50 gift certificates to Dick Pond Athletics. Details at the run.

More information is available online or by calling Chuck Johnah at ext. 2-3471.

[www.argonneclub.anl.gov/ARC](http://www.argonneclub.anl.gov/ARC)

## NEWCOMERS ASSISTANCE OFFICE TO CHANGE HOURS OF OPERATION...

The Division of Educational Programs' Newcomers Assistance Office (NAO) will be open to serve newcomers Monday afternoons 2 - 5 p.m., and Wednesday and Thursday from 9:30 a.m. - 12:30 p.m. The NAO provides assistance and information to scientists and short-term visitors from abroad and offers information packages on arrival, various social events and conversational English as a Second Language classes. Even new Argonne employees from out of state might find some useful information on the Web site, at [newcomers@anl.gov](mailto:newcomers@anl.gov) or ext. 2-8647.

[www.dep.anl.gov/newcomers](http://www.dep.anl.gov/newcomers)

## ... OFFER FREE ESL CLASSES ...

The Newcomers Assistance Office (NAO) will also be offering free conversational English classes this fall Wednesdays from 9:30 -11:30 a.m., beginning Wednesday, Sept. 12, in Building 223, Room L119. (Note the recent change from Thursdays to Wednesdays) Three energetic English as a Second Language teachers who volunteer their time will lead the classes. Depending on the skill levels and the number attending, the class will be divided into groups.

All interested visiting researchers and those accompanying them are welcome to attend the classes, improve their English skills and make new friends in the Argonne community. Even those who cannot come on a regular basis are welcome to join the class. For more information contact the NAO at [newcomers@anl.gov](mailto:newcomers@anl.gov) or 2-8647.

## ... AND SPONSOR MONTHLY COFFEE MEETINGS

Spouses and young children of visitors to Argonne are invited to meet new friends and share information about the area at the Newcomer's Assistance Office (NAO) monthly coffee mornings. The first coffee morning of the fall will be held Friday, Sept. 14, from 9:30 -11:30 a.m. at the home of Yumiko Kiyanagi.

For more information, directions, to arrange a ride or have your name added to our mailing list, contact the NAO at [newcomers@anl.gov](mailto:newcomers@anl.gov) or call ext. 2-8647.

## CHORAL GROUP RESCHEDULES CONCERT

The Argonne Choral Group has rescheduled its fall concert for Thursday, Oct. 11, at 6 p.m. in the Building 362 Auditorium. The theme of the concert is "Americana;" a variety of music will be performed including such pieces as "Shenandoah" and the Eagles' "Seven Bridges Road."

A \$5 donation at the door is requested.

The club is now planning year-round performances and is always looking for more singers of any and all talent levels. Rehearsals are held Mondays and Thursdays from 11:45 a.m. to 12:30 p.m. in the Building 362 Auditorium. For more information, contact Pat Garner (NE) or Katie Weber (U of C).

## REGULAR EXERCISE CAN HELP IMPROVE YOUR MOOD

Can a few laps around the block solve emotional problems? Probably not, but a regular exercise program might help. A review of studies stretching back to 1981 concluded that regular exercise can improve the mood

of people with mild to moderate depression. It also might play a supporting role in treating severe depression.

The Argonne Exercise Club meets Monday through Friday at 11:45 a.m. in Building 200, Room K131.

## LUNA NEGRA DANCE THEATER TO PERFORM DURING NATIONAL HISPANIC HERITAGE MONTH

The Luna Negra Dance Theater will perform at Argonne to help celebrate National Hispanic Heritage Month, which is Sept. 15 to Oct. 15.

The performance will begin at noon Thursday, Sept. 20, in the Building 402 Auditorium.

The hour-long event will include a lecture-demonstration conducted by the artistic staff of Luna Negra Dance Theater. As a part of the program, the dancers will perform excerpts from Luna Negra's repertory of works by Latino choreographers. Refreshments will be served prior to the performance.

## RETIREMENT VENDOR REPRESENTATIVES AVAILABLE FOR ONE-ON-ONE VISITS

Retirement vendors will send representatives to Argonne to meet individually with employees to answer questions about retirement plans or assets.

Appointments last a half hour.

- **FIDELITY:** Thursday, Sept. 13 and 27. For an appointment, call (800) 642-7132
- **PRUDENTIAL:** Wednesday, Sept. 5 and 19 (morning only). For an appointment, call Cheryl at (630) 285-8876

## L'OREAL ACCEPTING APPLICATIONS FOR 2008 FELLOWSHIPS FOR WOMEN IN SCIENCE PROGRAM

Now in its fifth year, the L'Oréal Fellowships for Women Program aims to annually recognize, reward and support five female postdoctoral researchers in the United States who are pursuing careers in the life and physical/material sciences, as well as mathematics, engineering and computer science. L'Oréal USA awards each recipient \$40,000 to apply toward her postdoctoral research.

The five beneficiaries will be invited to attend a week of events in New York City that include an awards ceremony, professional development workshops, media training and networking opportunities. In 2008 these workshops, which are facilitated by the American Association for the Advancement of Science, will encompass job search techniques, interviewing skills, budget development for grant requests and strategies for peer-reviewed publication.

The L'Oréal USA Fellowships for Women in Science program is open to women postdoctoral researchers only. Candidates interested in applying may visit the L'Oréal USA Fellowships for Women in Science Web site ([www.lorealusa.com](http://www.lorealusa.com)) to obtain more information about program eligibility and requirements. All applications must be postmarked by Oct. 31.



## 'Dream Team' takes 3-on-3 championship

ON TUESDAY, Aug. 7, a warm, sunny day, the Argonne 3-on-3 Basketball Championship was held. Many employees attended the tournament, both for the friendly competition and for the burgers that were served up on the grill. ■



IMAGES, CLOCKWISE FROM FAR LEFT

The Dream Team takes home the trophies. From left to right are Anthony Evans (FMS), Paul Upshaw (FMS), Devin Hodge (EQO), Randy Brown (FMS) and Team Captain Eric Bond (FMS).



Ernest Johnson (FMS) serves a freshly grilled burger to Deputy Laboratory Director Don Joyce (OTD).

Devin Hodge (EQO) braces himself after being muscled out of position by William Wesolowski (AES).

## 15 employees chosen for Strategic Laboratory Leadership Program



LABORATORY Director Robert Rosner has selected 15 Argonne employees to participate in the 2007 Strategic Laboratory Leadership Program.

UChicago Argonne, LLC, sponsors the Strategic Laboratory Leadership Program, a non-degree executive education leadership program for the programmatic and operations staff of Argonne and Fermi National Accelerator Laboratory. The University of Chicago committed to this program as part of the laboratory management contract and will provide resources to support this program for five years beginning in September 2007. Fifteen Argonne employees and 10 Fermi employees will be

selected annually to participate in the program. ■

[inside.anl.gov/leadership\\_program](http://inside.anl.gov/leadership_program)

**ABOVE:** The 2007 Strategic Laboratory Leadership Program kicked off Sept. 4. Participants are (front row, left to right): Vladimir Shiltsev, Mike Skwarek, Don Petravick, Andreas Jansson and Mike Papka. In the center row (l-r) are Monica Regalbuto, Karen Byrum, Susan Coghlan, John Quintana, Stephen Streiffer, Ruben Carcagno, Kathy Simunich and Ronald Moore. In the back row (l-r) are Deborah Harris, Mary Logue, Ted Liu, Seth Snyder, Georgio Apollinari, Joe Ingrassia, Mark Peters, George Srajer, Patricia Fernandez, John Mitchell, Eric Prebys and Tim Tess.

### IN MEMORIAM – AUGUST 2007

- LEROY COX**, a retired foreman II with 24 years of service in CS, died July 8. His granddaughter, Vickie Davis, survives him.
- ROBERT R. HEINRICH**, a retired chemist with 38 years of service in CMT, died June 30. His wife, Leila, survives him.
- DAN HILL**, a retired physicist with 37 years of service in HEP, died July 22.
- HENRY HOEKSTRA**, a retired senior chemist with 33 years of service in CHM, died August 1. His wife, Marilyn, survives him.
- TERRY E. HOWE**, a retired custodian with 28 years of service in FAC/AW, died August 15. His sister, Patty Tristler, survives him.
- ALBERT JONKE**, a retired chemical engineer with 37 years of service in CMT, died August 21. His six children survive him.
- ROBERT JUHLIN**, a retired maintenance mechanic with 37 years of service in FMS-BM, died July 21. His wife, Jean, and children survive him.
- NORBERT J. KRIEGER**, a retired machinist with 37 years of service in CS, died July

- 24. His wife, Roselind, survives him.
- STANLEY KUCHARZ**, a retired senior procurement specialist with 9 years of service in PRO, died August 13. His wife, Edna, survives him.
- GEORGIANNE LAMB**, an administrative secretary with 14 years of service in FMS-CU, died July 22. Her daughter, Karen Murphy, survives her.
- JOSEPH G. MCGINN**, a retired storekeeper with 34 years in FMS-MAT, died July 24.
- INGEBORG OLSON**, a retired scientific assistant with 28 years of service in TD, died July 28. His brother, Oscar, survives him.

### RETIREES – AUGUST 2007

- JOHN M. CARPENTER** (PNS) retired July 31 with 33 years of service.
- GEORGE IMEL** (NE) retired July 31 with 23 years of service.
- JAN P. HESSLER** (CHM) retired August 3 with 32 years of service.
- WILLIAM N. HOLLIS** (AES) retired August 3 with 14 years of service.

## Classified Ads

### MISCELLANEOUS

- BICYCLE RACK** — Outside bicycle rack. 6 feet, double sided, new last fall, List is \$300. \$150. Mike Bentley. (630)554-8806.
- DINING SET** — Square, black-tiled dining table extends to hold six and six chairs. Good condition. \$150. Sulbha Wagh. (630) 428-3842.
- TRAMPOLINE** — JumpPro inflatable air jumper trampoline, 12' diameter, heavy duty, for ages 3-12, with air pump. \$100. Andy Jansen. (630)739-7721.
- TRAILER** — 1998 34' Travel Trailer, "Vacationaire" Full kitchen, sleeps 6, everything included, Winterization kit, tire covers, waxes, cleaners, TVs, VCRs, Pots, Pans, silverware, toaster, glasses, vacuum cleaner, rugs, etc. \$12,000 O.B.O. Cheri Jo Giacomini. (815) 260-2437.
- FURNITURE** — Solid Wood End Table w/drawer glass cover top. \$40. Two Brass Table Lamps with shades. \$10 each. All excellent condition. Gordon Veerman. (815) 485-4944.
- MISCELLANEOUS** — College textbooks: "Intro to Technical Problem Solving with MATLAB v. 7" and "University Physics" Vol. 1, 11th Ed. \$5 each. Triple folding hamper. \$5. Desk lamp. \$2. Pink trash can. \$1. Two rugs 78" x 52", red/black. \$15. Denise Moores. (630) 778-0250.
- CHIPPER/MULCHER** — MTD 4 horsepower Chipper/ mulcher, excellent condition. \$125. Wayne Michalek. (815) 372-2285.

- MISCELLANEOUS** — Light oak dining room table with eight cream-colored cushioned chairs. \$500. Oak dining room table, six chairs, buffet and china cabinet. \$800. Century 1170 fireproof safe, 1 cubic foot. \$25. Roslyn Kiwior. (708) 843-1210.
- KOHL'S COTTON PLACEMATS** — 10 Christmas placemats. \$10. Eight fall-themed placemats. \$8. 10 pastel, large - checkered mats w/matching table runner. \$15. 10 Halloween (orange w/ black cat) mats. \$10. One short Halloween table runner. \$3. One two-sided Christmas runner. \$5. Eight kittens/flowers-themed mats w/matching table runner. \$13. Cindy Crawford. (708) 974-1619.
- BOOK** — History of Argonne, 1946 - 96 by Jack Holl, published 1997. \$5. Jane Andrew. (708) 445-0953.
- TRACTOR** — 1977 Cub Cadet garden tractor w/52" mower, 42" snow blower, and cart. (New engine in 1996). \$800 OBO. Ken Resh. (630)739-5240.
- CAMPER** — 1975 Jayco pop-up camper, second owner, good condition. \$950. Greg Markovich. (219) 972-1644.
- MISCELLANEOUS** — Guitar amplifier, Crate GTX212, on - board DSP, 2" x 12" speakers, new \$500. \$220. Refrigerator, dorm sized. 1.7 cu. ft. 18" x 18" x 18". \$75. Truck bed mat, for Ranger, 1/4" rubber, new \$70. \$40. Gary Drake. (630) 406-9078.
- SCUBA GEAR** — Tanks, backpacks, regulators, valves, men's large wet suit, weight belts. Best offer. Carl Webster. (630) 963-9604.
- CANOE AND MOTOR** — 17 ft. Grumman aluminum whitewater canoe. \$425. Mercury electric trolling motor. \$75. Susan Webster. (630) 963-9604.

- MISCELLANEOUS** — Canon printer PIXMA iP4300, new and complete in box. \$80. Adobe Photoshop Elements 5.0 with Adobe Premier Elements 3.0, new, never registered. \$90. Laptop Dell Inspiron 2650. 1.7 GHz, 14.1 XGA, 20GB HD, 24X CD-RW, case, wireless card, XP home, plus extras. \$400. David Compton. (630) 897-5867.
- SOFA** — Beautiful, beige-colored suede sofa. Purchased new in March. \$250. Andre McKenzie. (708) 223-0964.
- DRUMS** — 3 toms, 1 snare, 1 bass drum, 1 high hat, 1 ride cymbal. \$100 OBO. Denis Gagevich. (708) 642-5482.
- AUTOMOBILES**
- 2004 MAZDA — RX-8, 37K miles, manual 6 speed, sport and appearance packages, beautiful car, blast to drive. \$16,500 OBO. Michelle Rauch. (719) 494-7737.
- 1996 HONDA — Accord Station Wagon, 107K miles. Great condition. \$5,500. Steve Leatherman. (815) 230-2660.
- 1997 FORD — Escort sport, 130,000 miles, manual, grey. \$2,000. Fanny Jaffrennou. (773) 948-0538.
- 2004 HARLEY DAVIDSON — Wide Glide, fuel injected, Screamin' Eagle pipes, custom seat, 8,000 miles, excellent condition. \$14,200. Tim Barr. (630) 252-1643.
- 1998 BUICK — LeSabre limited, 29-30 mpg highway, very reliable, garage kept, 130k miles (highway). \$2,400. Gary Henriksen. (630) 910-4562.

- 1997 SATURN — SL, 4-door sedan, silver, 5-speed manual, a/c, ABS, 77,000 miles. \$2,200. Tim Tait. (630) 544-8647.
- 2005 YAMAHA — TTR125, excellent condition with upgrades and warranty. \$2,500. Laura Vajda. (630) 667-6151.

### GIVE AWAY

SLIDE — Yellow plastic slide, 7' length. Andy Jansen. (630) 739-7721.

### HOUSING

CONDO/SALE — Tinley Park, 2 brdrm, 2 bath, garage and lot reserved parking spaces, fire place, all appliances, on a lake in a wooded area. \$500 referral bonus, owner will pay regular monthly assessment through 2007. \$163,500. (708) 212-5250.

### WANTED

BEYBLADE BATTLE TOPS — Nancy Van Wermeskerken. (815) 727-2670.

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