

AU Engineering News

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Moskowitz receives Honorary DSc "Joel's House" dedicated

Alfred University presented a Doctor of Science degree, honoris causa, to **Joel Moskowitz (CE '61)**, founder, president and chief executive officer of Ceradyne, Inc., Costa Mesa, CA, at its recent commencement ceremony on May 14, 2005.

Moskowitz founded Ceradyne in 1967. Now best known for its Small Arms Protective Insert, a lightweight ceramic plate that is inserted, front and back, in the body armor issued to soldiers fighting in Iraq and Afghanistan, Ceradyne is one of the

leading manufacturers of a variety of advanced ceramic materials. Precision engineered products include mis-

parent alumina orthodontic brackets. Sales were more than \$215 million for 2004.



D. Joel Moskowitz receives his doctoral regalia from Robert R. McComsey, chairman of the AU Board of Trustees (at left) and Dr. Bill Hall, AU Provost (at right).

sil radomes; components for a variety of industries; microwave components; automotive components for engines and fuel systems and even trans-

Ceradyne has also diversified through the 2004 acquisition of ESK Ceramics, a German-based manufacturer of industrial technical ceramic powders and advanced ceramic products, and Quest Technology of San Diego, CA, a leader in injection molding of technical ceramics for medical applications.

Through all the years, Mosko-

(continued on page 7)

Carty, Shelby receive SUNY research honors

Dr. William M. Carty, professor of ceramic engineering, and **Dr. James E. Shelby**, professor of glass science and McMahon Professor of Ceramic Engineering were honored on May 4, 2005, by the Research Foundation of the State University of New



Dr. Bill Carty



Dr. Jim Shelby

York for their Research and Scholarship. Carty and

Shelby were honored along with 51 others representing 25 SUNY campuses and centers.

Carty, whose research is primarily oriented to industrial ceramics, has raised more than \$9 million in research from

(continued on page 6)

Convocation honors for AU Engineers

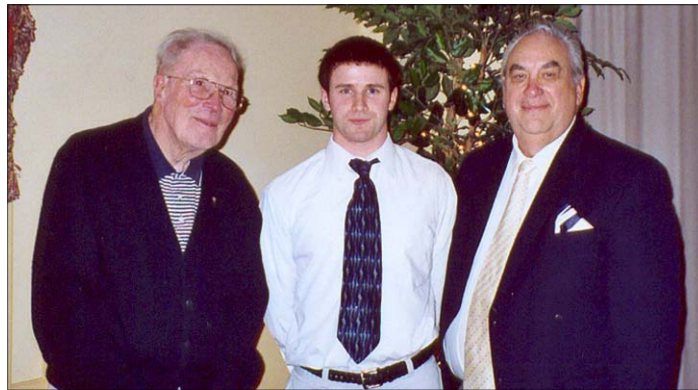
Outstanding undergraduate students in all School of Engineering programs were honored at Alfred University's Honors convocation, April 15, 2005, for their academic, research and athletic achievements.

Brian Adams (Freshman BMES), William B. Crandall Scholarship, awarded for entrepreneurial spirit; **Alicia Ballard** (Senior CE), The Muriel Strong Morley award, awarded to an outstanding woman athlete; **Ryan Bank** (Senior MSE), Milton A. Tuttle Award, for excellence in scholarship and athletics; **Harlan Brown-Shaklee** (Senior, CE), The Richard C. Martin Outstanding Senior Scholarship, for scholarship, citizenship and service to Keramos; **Kevin Brucher** (Junior ME), ASME Outstanding Student Award, for scholarship and professional and community service.

Michael Buchholz (Senior ME), Faculty Award for Professional Achievement in Mechanical Engineering, for service and leadership in the AU ME program; **Jared Friant** (Sophomore MSE), Curtis E. Scott '72 Scholarship; **Bernard Gridley** (Junior CE), Henry J. Odink Award in Ceramic Engineering, for outstanding laboratory ability; **Daniel Griffin** (Sophomore MSE), Curtis E. Scott '72 Scholarship; **Ray Jansen** (Junior MSE), The Jim R.

Tinklepaugh Memorial Scholarship, for academic excellence; **Gregory Kajfasz** (Senior ME), Faculty Award for Academic Excellence in Mechanical Engineering.

Martin Klingensmith (Sophomore EE), The Donald R. Pautz Memorial Award, for aca-



Patrick Kreski (junior GES), at center) is the 2005 Scholes Scholar, with Dr. Samuel R. Scholes, Jr (left), and Dr. L. David Pye (right), NYSCC dean emeritus and the 2005 Scholes lecturer. The Scholes Scholar was announced at the Scholes Lecture on April 7, 2005. Dr. Scholes, a retired AU professor of chemistry, is the son of Dr. Samuel R. Scholes for whom the award is named.

demic and athletic achievement and service; **Justin Kratz** (Senior EE), Faculty Award for Outstanding Electrical Engineering Senior; **Patrick Kreski** (Sophomore GES) CANY Scholes Award; **Kevin Martin** (Senior EE), All-American Honors Award (NCAA).

Ryan Munson (Sophomore CE), Curtis E. Scott '72 Scholarship; **Timothy Nedimyer** (Senior CE), The Jim R. Tinklepaugh Memo-

rial Scholarship, for academic excellence; **John Rich** (Junior MSE), Faculty Award for Outstanding CEMS Junior; **Shaun Schlee** (Senior CE), The Richard C. Martin Outstanding Senior Scholarship, for scholarship, citizenship and service to Keramos; **Katherine Seig** (Senior CE), State University of New York Chancellor's Award for Student Excellence, Alfred University Scholar.

Janelle Villone (Senior MSE), Advancement of Women in Engineering Award, for demonstrated professional promise; Faculty Award for Outstanding CEMS Senior; The Richard C. Martin Outstanding Senior Scholarship, for scholarship, citizenship and service to Keramos; Undergraduate Tutor Award; **Michael Wallace** (Senior CE), The Mark S. Miller Memorial Scholarship, for excellence and promise in ceramic engineering; **Amanda Youchak** (Senior GES), General Electric Excellence in Glass Science Award; The Richard C. Martin

Outstanding Senior Scholarship, for scholarship, citizenship and service to Keramos.

Also, graduate students **Krista Carlson** and **Micheline Miller** both received the Dr. Richard C. Martin Outstanding Teaching Assistant Award, for their outstanding contributions to laboratory instruction.

Goetchius inducted into Phi Beta Kappa

Kathryn Goetschius (Junior, BMES) was recently inducted into Alfred University's Alpha Gamma of New York Chapter of Phi Beta Kappa. Founded in 1776, Phi Beta Kappa is the nation's oldest and largest academic honor society, with more than half a million members. The AU chapter was established in 2003, an acknowledgement of AU's accomplishments in the field of high-quality liberal arts and sciences education. 19 new members



Dr. Susan Strong, AU associate provost, congratulates Kathryn Goetschius on her achievements

were inducted in the April 22nd ceremony.

Goetschius, a writer for this newsletter, has a minor in chemistry. She is also a member of Keramos and the Society of Women Engineers.

Carlson Awarded NSF Fellowship

Graduate student Krista Carson has been awarded a Graduate Fellowship by the National Science Foundation. These prestigious NSF fellowships are awarded after a highly competitive application and review process. Carlson's is the first such award to be received by a graduate student at AU.

Carlson, a graduate student in the Glass Science program with advisor Dr. Matt Hall, performs research in the topic area "Absorption of DNA to calcium aluminosilicate and Calcium aluminate glasses."

Engineers in AU sports

Carlo DiRisio (Junior, EE) was recently honored as Alfred University's Empire 8 Sportsperson of the Week, April 4-10. DiRisio earned this honor through his exemplary performance on and off the lacrosse field.



Carl DiRisio

New York State Women's collegiate Athletic Association's

awarded all-star honors in tennis to **Alicia Ballard** (Senior, CE). Her 4-year career at AU established a school record 43 singles wins and 27 doubles victories.

In Empire 8 track & field, **Ryan Bank** (Senior, MSE) was awarded first team all-conference honors in the 5,000 meter run (15:42.98) and also won second team honors



Alicia Ballard

in the 3,000 meter steeplechase (9:28.24). Banks was a top performer for AU at the recent ECAC championships, placing 5th in the 3000 meter steeplechase.

Steve Robin (Senior, CE) earned Empire 8 second team all-star honors in track & field in the decathlon (5,628 pts). Robin holds the AU indoor pole vault record, 4.67 me-



Ryan Bank



Steve Robin

ters. During his AU career, Robin won one ECAC pole vault title (2003) and twice won state indoor titles (2004, 2005). At the ECAC championships, Robin took a second place in pole vault at 4.52 meters.

Also earning Empire 8 second team honors was **Dan Ohart** (Sophomore, undecided major) in javelin (49.71 meters).

Look out for Ohart and Nicole Thompson (Freshman, CE) as they return to next year's team!

(Ohart and Thompson pictures not available)

SWE reports busy year, plans for future

By Melissa J. Berman, Senior CE

The Society of Women Engineers (SWE), is a national educational and service organization that seeks to provide a network of support that will help with both the retention and further promotion of more women in engineering. In the United States, women currently graduating in engineering and pursuing a job account for less than 30% of the total; less than 12% of the engineering workforce was female in 2000. The Alfred University chapter is a small but very active section of SWE in the region.

On AU campus, SWE has started a tradition of holding "The Ultimate Engineer Contest" during National Engineering Week. Students of any major are challenged to create useful items from everyday objects and then be voted on by the whole campus. The

winner is announced at the School of Engineering barbeque and presented with a gift certificate.

SWE also held "Study Night" this year during finals week, inviting students to come and study outside the library with all the pencils a student could ever need and free pizza and soda for a break from calculus.

SWE has worked with the local community to expose elementary and middle school students to the wonders of engineering through science fairs.

Off-campus, SWE has sought opportunities for both professional development and real world experience. In the past, SWE members have gained valuable professional development skills through coordinated efforts

with the local professional chapters and attendance at conferences and mentoring programs, programs that have helped ease the college-to-workforce transition

For 2005-06, SWE hopes repeat these events and to develop as many more: current planning for next year includes a Spaghetti Lunch fundraiser and a Corning Museum trip. SWE also plans to send a delegation from AU to next year's National SWE Conference in Anaheim, California, - a chance for all student sections to interact, present what they've done in the past year and have input on what they would like to see in the future from SWE on a national level. Participation in the many workshops and networking sessions will help strengthen AU SWE.

ASM/TMS hosts E-Week challenge

The Alfred University ASM/TMS joint student chapter held an egg drop competition on Feb 22, 2005 as part of AU Engineering week. A total of 9 teams (14 people) participated. Not all were engineers!

Teams had to construct a lightweight protective structure to not only give a safe landing to its passenger-egg, but accurately arrive on target. Surprisingly, only one egg was broken - perhaps the frozen ground was not quite a "hard" enough challenge? Next year, a hard surface target may increase

the difficulty! The results:

1st: Matt Dispenza (senior, CE) and Dan Burnett (Senior, CE) with distance of 13.5 inches from target; 2nd: Keenan Hanson (Freshman, BMES) with distance of 15 inches; 3rd: Kate Sieg (Senior, CE) with distance of 22 inches ; 4th: Dan Griffin (Freshman, MSE) and Patrick Kreski (Sophomore, GES) with distance of 38 inches; 5th: Kate Wittich (LAS, Communication Studies) with distance of 44 inches.



The drop from the top!
2005 ASM/TMS Egg-drop Challenge!

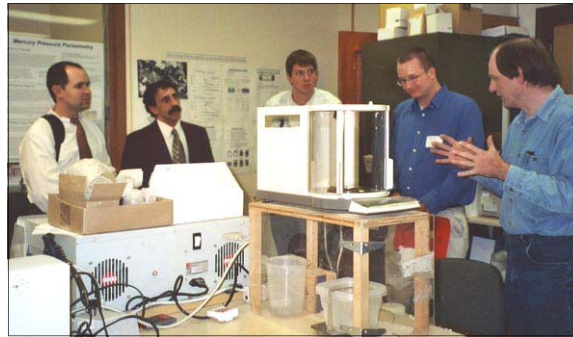
CACT: strong economic impact engine for NYS companies

The Center for Advanced Ceramic Technology (CACT) External Advisory board (EAB) met on April 7, 2005 in conjunction with the annual Samuel R. Scholes Lecture.

The meeting was attended by Jason Doling, Manager of Technology Transfer and Business Development Programs, New York State Office of Science, Technology and Academic Research (NYSTAR), in addition to industry representatives and CACT personnel. AU Provost Dr. William Hall and Dr. Robert Bitting, AU Vice-President for Research and Sponsored Programs, also attended this semi-annual meeting.

Provost Hall offered a formal welcome, followed by the CACT 2003-2004 Annual Report presented jointly by Dr. Vasantha Amarakoon, CACT director, and Dr. Licio Pennisi, CACT assistant director. A significant finding in their report was the quantifiable economic impact realized by the CACT: over \$30 M impact realized for the \$1 M invested by NYSTAR.

Four faculty members presented their research interests and opportunities with NYS companies via State and Federal Funding. Dr. Scott Mixture is working with the National Science Foundation, Dr. Rebecca DeRosa with the Environ-



Faculty-conducted laboratory tours were also a highlight of the semi-annual meeting of the CACT External Advisory Board. Pictured (l-r) in the Particle Analysis Laboratory are: Jason Doling (NYSTAR), Michael Clement (Feronics), Nathan Sonnevile (Refractron), Edward Vroman (Refractron) and Dr. Herbert Giesche, associate professor of ceramic engineering.



An evening reception featuring student research posters concluded the EAB meeting. Here, Nathan Empie, MSE Phd student, explaining his award winning poster to Dr. L. David Pye, dean emeritus of the NYS College of Ceramics.

mental Protection Agency, Dr. James Varner with AU's Center for Environmental and Energy Research, and Dr. Xingwu Wang with Biophan Technologies Inc.

The CACT will be completing its second ten-year designation by New York State in 2007. Amarakoon discussed the need to begin preparations for re-designation soon and lead further discussions on "Challenges and Opportunities for the Future".

The highlight of the meeting was the presentation delivered by invited guest Jason Doling of NYSTAR. NYSTAR is the funding agency of the 15 NYS Centers for Advanced Technologies (CATs). Doling reported on the NYS CAT system, its mission and goals. He also reported on the performance of the AU CACT relative to all 15 NYS CATs. The CACT helped NY companies realize \$120.8 Million of economic impact through revenues, savings, funds acquired and capital improvements from 1999 to 2004. In addition, it helped NY companies create and retain 221 jobs during this period. Doling commended the CACT for a fine job.

The "Alfred connection" in advanced materials research

The Alfred University Connection: A number of distinguished alumni, current faculty and former faculty of the New York State College of Ceramics at Alfred University were in attendance at the 50th ANNIVERSARY CELEBRATION of the 46th Sagamore Army Materials Research Conference on Advances and Needs in Multi-Spectral Materials Technology on May 19-12, 2005 at Harbortowne Golf Resort and Conference Center in St, Michaels, Maryland.

Left to Right: Dr. Vasantha Amarakoon (CACT), Mr. Gary DelRegno (CACT), Dr. Licio Pennisi(CACT), Dr. Gary Messing (Department Head, Penn. State), Dr. William Rho des (Rhodes Consulting), Dr. Marina Pascucci (CeraNova), and Dr. James McCauley (U.S. Army Research Laboratory).



CGR celebrates 20 years

On June 9, 2005, the members and guests of the NSF Industry-University Center for Glass Research met at Alfred University to celebrate twenty years' successful collaboration between industry, academe and government in basic research to serve the needs of the glass industry. The celebration included a full program of invited speakers followed by a reception and banquet.

Helmut Schaeffer, HVG and DGG (ret), presented the keynote address, "Precompetitive glass research—New challenges within an increasingly global industry."

Other invited speakers included: **Herve Arribart** (Saint-Gobain Recherche), **Warren Wolf** (President, American Ceramic Society), **L. David Pye** (Alfred University, emerit.), **Himanshu Jain** (Lehigh University), and **Michael Greenman** and **John**

Brown (both of the Glass Manufacturing Industry Council (GMIC)).

CGR came into being in 1985, when a core group of glass industry representatives, realizing the need for a cooperative research center for glass science and engineering, formed the Center for Glass Excellence. The NYS College of Ceramics at Alfred University was selected to lead the research, following a national competition. In 1986, the CGR qualified for designation to the National Science Foundation Industry/University Cooperative Research Centers Program. CGR's mission is to advance the field of glass science and engineering through a research, education, and technology exchange driven by the cooperative efforts of academe, industry, and government.

CGR has grown to three specialized university sites: basic and advanced glass research

(Alfred University), glass surfaces and interfaces (The Pennsylvania State University), and refractories for glassmaking (University of Missouri-Rolla). At each site, CGR conducts basic and pre-proprietary research projects that are selected and evaluated by the corporate sponsors and its research subcommittee, after extensive interaction with faculty research scientists.

In addition to research projects, CGR activities in service to the international glass community include publication of the technical review periodical, "The Glass Researcher: Bulletin of Glass Science and Engineering" (now published quarterly in the American Ceramic Society Bulletin) and sponsorship of the series of international glass conferences, "Advances in the Fusion and Processing of Glass."

CGR Faculty to develop distance learning for Glass Industry

The NSF Industry-University Center for Glass Research has received a two year \$100,000 contract to develop distance learning courses for the glass industry the Department of Energy (DOE) at Oak Ridge.

The goal of the work is to develop a set of distance learning courses focused on specialized glass industry technical needs, industry best practices/operations, and state-of-the-art energy efficient technologies. Dr. Alexis Clare, professor of glass science, and other Alfred University SOE faculty members will develop and test at least four new courses during the contract period.

There are great economic pressures on the industry to improve the energy efficiency of the manufacturing process, decrease environmental impact, and improve competitiveness.

There are few schools offering the necessary courses, and those that do are not located nearby most of the American glass industry plants. The SOE faculty experience and expertise in delivering both short courses and distance learning courses will make it possible for course development, with timely and effective delivery of training and information, to meet the unique needs of the glass industry.

Courses to be developed include: A short course on technologies, best practices, and energy saving opportunities related to glass processing; two glass engineering science courses, or one glass engineering science course and one standard engineering course (mechanical or electrical) with significant energy savings related components; and an engineering short course (two and a half days to one week).

Clare has already visited John's Manville International, Golden, Colorado, to initiate a preliminary survey of the glass industry and supplier industries to determine need-sand to compile the most-current energy-saving technologies and best practices.

Stevens appointed CGR Director

Dr. Harrie Stevens is back in the glass field as the Director of the Center for Glass Research, joining the Center in time to participate in the Center's Twentieth Anniversary Celebration, which will be held in Alfred on June 8th and 9th. Past Center Directors, including Dave Pye, Bill LaCourse and Tom Seward, will be joining current and



Dr. Harrie Stevens

past members and research faculty for the celebration.

Stevens (AU CE '65, Rutgers PhD Ceramics '69) is well known to many; his three careers have linked him with both glass and whitewares communities. Some of you might remember him as a professor of glass science in the NYS College of Ceramics - he served for 21

years as professor, associate dean and department head. A second career followed - 12 years at Corning Incorporated as an engineering research manager. Most recently, Stevens has served as Director of the AU's Whiteware Research Center. Along the way, Stevens has also served as NICE president and as a member of the American Ceramic Society Board of Directors and has accepted many other professional service responsibilities.

Hall receives award

Dr. Matt Hall, assistant professor of biomaterials and glass science, was recently honored by the NYS College of Ceramics and Alfred University at AU's Honors Convocation, April 15, 2005, receiving this year's John F. McMahon Excellence in Teaching Award, the highest teaching award bestowed by the NYS College of Ceramics at Alfred University. The award is presented in memory of McMahon, a former dean and professor at the College.



Dr. Matt Hall

Hall was also honored for teaching excellence by Alfred University, being among 10 AU faculty members receiving the Joseph Kruson Trust Fund Award for Excellence in Teaching. Hall joined the School of Engineering faculty in 2003. He serves as faculty advisor to both Keramos and the Alfred Biomaterials Society.

The AU School of Engineering presents numerous short courses each year and can custom design a course for your needs.

Complete descriptions of Short Course offerings for 2005 are now posted on the web at <http://engineering.alfred.edu/cems/du/opat/shor/shor.html>. For further information or to check if a course is still open, contact Marlene Wightman, Director of Continuing Education, wightman@alfred.edu.



The AU School of Engineering and CGR faculty experience and expertise in Short course development is well respected by industry. Here, Dr. Arun Varshneya, professor of glass science, presents the short course "Glass: Its production and properties" to a recent industrial audience.

RFSUNY awards *(from page 1)*

industry, as well as matching grants from NYSTAR, NYSERDA, and the U.S. Department of Energy. In addition to his research, Carty is in high demand as a lecturer, and has given more than 100 papers at scientific conferences. Carty has twice been the recipient of an Excellence in Teaching Award from Alfred University. He is a recipient of the Karl Schwartzwalder-Professional Achievement in Ceramic Engineering Award from the American Ceramic Society and was the 2002 recipient of a NYSTAR Faculty development grant.

Shelby is one of the world's leading glass scientists and the authority on the important technological subject of diffusion of gasses in glass. He has published more than 250 research papers; his books, "Gases in Glasses and Melts" & "Rare Earth Ions in Glass" are standard reference books in their fields and his "Introduction to Glass Science and Technology", in its 2nd edition, is widely used in classrooms.

Shelby's expertise is currently being tapped by the U.S. Department of Energy (with a \$2.2 million grant) regarding the use

of glass micro-spheres as a storage medium for hydrogen - part of the hydrogen economy grand challenge announced last year by President Bush.

Shelby has received the G.W. Morey Award for Research from American Ceramic Society, Glass Division, and has been honored by the University of Missouri-Rolla, for outstanding alumni achievement, with an honorary professional degree of Ceramic Engineer. He was honored with the John F. McMahon Excellence in Teaching award in

Faculty briefs

Graduate student Andrea L. Jaromin and Dr. Doreen Edwards, associate professor of materials science and engineering, report research findings in their paper, "Subsolidus Phase Relationships in the $Ga_2O_3-A_{12}O_3-TiO_2$ System," soon to be published in the Journal of the American Ceramic Society. Edwards' group also presented two papers and a poster presentation at



Dr. Doreen Edwards

the recent American Ceramic Society annual meeting in Baltimore.

Edwards, School of Engineering Graduate Program Director, gave "Director's Appreciation Awards" to two graduate students -- Nathan Empie and Gretchen Schwerzler. Empie is president of the AU MRS chapter, which actively supported graduate student seminar by hosting coffee-cookie reception most Thursdays. Schwerzler was active in organizing campus-wide graduate student social events.

Dr. Linda Jones, professor of ceramic engineering and materials science, presented a lecture entitled "The Structure of Carbon Solids" at Oak Ridge National Labs on March 18th at an ASM Educational Symposium. Jones and several other experts were gathered at the symposium to discuss carbon materials, their structure and synthesis. Jones also participated in the recent workshop "Carbons for a Greener Planet," sponsored by the American Carbon Society, May 22-25, 2005, at The Pennsylvania State University.

Course in focus: CES 464—composite design and fabrication



Instructor: Dr. Al Meier, assistant professor of metallurgy

For this project, groups of 4-6 students were required to design, fabricate and predict the failure mode and load for a slender composite beam.

Dr. Al Meier

Only commonly available, low-cost materials (maximum expenditure \$20/ team member) that could be processed using existing facilities were allowed. Each team's goal was to

optimize strength-to-weight ratio while meeting the geometric, loading and environmental stability constraints.

CES 464 is a required upper level core-course for MSE and BMES majors and is a technical elective for

At, left, Alicia Ballard (senior, CE) and Ethan Weikleeng (junior, CE) check their set-up on the Instron mechanical tester. Typically, the composites were fabricated using glass tubes and epoxy resin. The plastic sheeting will be draped around the sample and cross-heads during testing to contain glass shards on failure.



Jones accepts new challenges at Smith College

Dr. Linda Jones, professor of ceramic engineering and materials science, has announced that she will be taking on new challenges this summer as Director of the Smith College (Northampton, MA) Picker Engineering Program. The program, offers the only engineering bachelor's degrees ever offered at any of the nation's women's colleges.

Jones, considered one of the country's preeminent researchers in high-temperature materials, has been an engineering faculty member at Alfred University since 1991. During her AU career, Jones has received 32 national grants and awards totaling nearly \$3 million to fund her research.

Jones' numerous research and teaching awards include the NYS College of Ceramics



Dr. Linda Jones

John F. McMahon Excellence in Teaching Awards in 1994, 2001 and 2003, AU's Ruth Berger Rubenstein Memorial Award for Excellence in Teaching, a SUNY Chancellors Award for Excellence in Teaching, and AU's Kruson Teaching Excellence Award in Ceramic Engineering.

Jones was named the 1996 Graffin Lecturer for American Carbon Society, is a 2003 recipient of the SUNY Chancellor's Research Recognition Award. Jones has served as the Chair of the Western NY section of the American Ceramic Society and is current president of the Ceramic Education Council. She also serves as a current member of the Board of Directors of the American Carbon Society.

Jones has served as advisor to Alfred University's twice-selected "Team CERAMICS" developing experimental programs for in

NASA's Reduced Gravity Student Flight Opportunities Program. Recently, she has served as Chair of the AU School of Engineering Materials Science and Engineering program and as President of the AU Faculty Senate.

Jones will take up her new responsibilities July 1st. "I am thrilled to become part of a program that is delivering an engineering education to truly prepare women for leadership roles in the 21st century," said Jones. "Engineers at Smith are educated not simply to solve problems others have set for them but to identify problems and issues and, in doing so, to become responsible for the solution."

Smith College could not have chosen a better candidate to lead their program - Good Luck, Linda!

Moskowitz (from page 1)

witz, a member of the AU Board of Trustees since 1983, has remained a staunch supporter of AU and a friend to its engineering faculty. He and his wife, Ann, are members of AU's Society of Benefactors, those whose lifetime contributions to the University exceed \$1 million.

Their most recent gift allowed the University to convert the former Sigma Alpha Mu fraternity house into Joel's House, special interest housing for 22 students who are interested in community service.

The house, although occupied, still was not finished in May 2002 when the Board of Trustees made the to phase out fraternities and sororities. AU had co-signed on the

mortgage, so ended up owning a house that still needed a great deal of work.

Joel and Ann Moskowitz stepped in with the funds needed to complete the house. This year, the residents were members of the AU Rescue Squad, Alpha Phi Omega service fraternity, the AU chapter of Habitat for Humanity, and WALF Radio.

Moskowitz recently underwent treatment for non-Hodgkins lymphoma, delaying the dedication of "Joel's House" from the original October date. He is now considered to be cancer-free. Said Ann Moskowitz, the notes, phone calls and e-mails they received from trustees, faculty, staff and students while Joel was undergoing treat-

In Memorium: Dr. Esther Tuttle

Dr. Esther M. Tuttle, first woman to serve as an engineering faculty member in the NYS College of Ceramics, died on June 4, 2005, at age 85.

Tuttle received her BS and MS in ceramic engineering from the New York State College of Ceramics. In 1948, she received her doctorate in ceramic engineering from the University of Illinois.

A spectroscopist and petrographer, she was a member of the Research Faculty in the for four years in the late 1950's, and as SWE advisor in the early 70's.

ment "really made a difference. You really added sunshine to our lives."

Alfred University School of Engineering

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CONTACT US AT

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MS&T '05 - mark your calendar!

More than 8,000 materials scientists and engineers are expected to attend Materials Science & Technology 2005, to be held September 25-28 at the David L. Lawrence Convention Center in Pittsburgh (<http://www.matscitech.org>). Alfred University School of Engineering looks forward to meeting you there!

MS&T '05 is organized and sponsored by the American Ceramic Society (ACerS), the American Welding Society (AWS), based in Miami, Florida; the Association for Iron and Steel Technology (AIST), The Minerals, Metals & Materials Society (TMS), and ASM International (The Materials Information Society).

For more information about MS&T '05 program and registration, go to the link above. To stay abreast of planned Alfred University alumni events, contact Marlene Wightman, wightman@alfred.edu.

Battlebot "Hairyvetch" continues the fighting EE/ME tradition

The battlebot tradition continues in the AU School of engineering with Battlebot "Hairyvetch." Competing in the super heavyweight class at 251 pounds, the team had achieved a world-wide ranking of 32nd prior to its last competition!

You can check out <http://www.botrank.com> for the standings.

Team "Hairyvetch" is part of a senior design team project supervised by Dr. Joseph Rosiczkowski, associate professor of mechanical engineering.



Bill Fabrizio, senior ME, and Martin Klingensmith, senior EE, with "Hairyvetch" before recent competition

Engineers at ACerS Baltimore

CE, GES and CES students demonstrated their abilities at the 107th Annual Meeting, Exposition, & Technology Fair of the American Ceramic Society (ACerS), April 10-13, 2005, in Baltimore, MD, competing in the Ceramic Educations Council (CEC)-sponsored student speaking contest and graduate student poster competition. Engineering skills were put to the ultimate test in the annual Keramos Putting Contest, in which the student team must fabricate their own ball and putter as well as be closest to the cup to win.



Kathy Rider, center, is congratulated at the Alfred University alumni event at the ACerS meeting in Baltimore, for her success in the student speaking contest

CEC Graduate Student Poster Competition

Second place: Interactions of Metal Interconnects with Glass Ceramic Sealants. K. Stallone.

Keramos Putting Contest

First place: Alfred University Team: Shawn Schlee, Michael Wallace, Jake Amoroso and Katherine Rider totaled 63.25 in. (Runner-up: University of Missouri-Rolla)

The AU School of engineering congratulates all our winners!

CEC Student Speaking Contest

First runner-up: A Comparison of the Osteolytic Response to Titanium and Alumina Particles. Katherine Rider

Best putt: Jake Amoroso, Alfred University, 7.0 in. from the cup.

Best ball: Team Alfred

Best putter: Team Alfred