

ENGINEERING News

Kazuo Inamori School of Engineering
Alfred University

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**18th University Confer-
ence on Glass Science
May 20-23, 2007
Rochester, NY
combined with
ACerS Glass and Optical
Materials Division
Spring 2007 meeting**

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\$5M award to Inamori School of Engineering

State Senator Catharine Young was on campus December 7, 2006, to announce the New York State Construction Fund allocation of \$5 million for the Kazuo Inamori School of Engineering at Alfred University. Young spoke briefly in Harder Hall auditorium to students, faculty and guests.

The state allocation augments a March 2005 \$10 million gift from the Kyocera Corporation, the world's largest manufacturer of advanced ceramic materials, to AU. With the income from the endowment, the University plans to hire up to four Inamori professors as the nucleus of a new center dedicated to research in nanotechnology for photonic and biomedical applications.

The \$5 million in state funds will be used for facilities and equipment for the new center.

Young told students that through their work in biotechnology, nanotechnology, photonics and other advanced materials fields, they have the ability to "make the world a better place. You are a credit to Alfred University, and a shining example for the rest of the country."

Alfred University President Charles M. Edmondson expressed his gratitude to Senator Young for her "confidence in Alfred University's faculty and students," demonstrated by her efforts to secure the

(Continued on page 5)

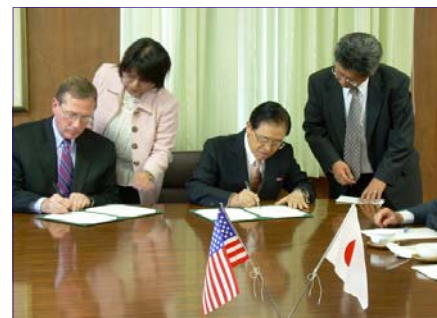


From L-R, Dr. Doreen Edwards, associate professor of materials science and graduate program director; State Senator Catherine Young (R-Olean); AU President Dr. Charles Edmondson; Dr. Alastair Cormack, dean of the Kazuo Inamori School of Engineering; and Dr. Bill Lacourse, Kruson distinguished professor of glass science and acting associate provost for Statutory Affairs.

Exchange agreement links AU and Kagoshima University

Alfred University and Kagoshima University have signed an academic exchange agreement to promote and expand cooperation in academic exchange and research collaboration between the two institutions. The formal signing took place in Kagoshima on November 8, 2006.

The academic exchange agreement will facilitate faculty and student exchange and research collaboration between the institutions, particularly allowing undergraduate engineers to earn academic credit for technical elective coursework while having a unique study abroad experience in culturally rich southern Japan. This new agreement adds a third



AU President Charles Edmondson, left, and Kagoshima University President Dr. Yukihiro Nagata, MD, sign the academic exchange agreement linking their institutions.

(Continued on page 3)

Medieval weaponry in King Alfred's field

Analysis of a Trebuchet Mechanism
MECH 362, Kinematics and Dynamics



A trebuchet is a medieval device used in the siege of defended castles. It is a classic mechanism that efficiently converts the potential energy of a dropping counterweight into kinetic energy of a moving projectile.

MECH 362 is a junior level mechanical engineering course in the analysis of motion and forces of moving mechanisms. Computer simulation plays an important role in the analysis because the dynamic parameters, position, velocity and acceleration, of every component in the mechanism need to be determined over the entire time interval of interest.

Two person teams used SolidWorks/COSMOSMotion 3D model to analyze and perform virtual testing of the mechanism's motion and judged on their technical PowerPoint presentation of the analysis as well as the fabrication and physical testing of their design. The objective was to obtain the highest energy conversion efficiency.

The longest hurl was 181 feet by the team of Ken Sprugin & Bryan Duke. There was a tie for most efficient trebuchets (~27% energy conversion) between the teams of Ryan Tosto & Chad Sopp and Bradley Grillo & Joe Kovac (all students are juniors in the ME program of the AU Inamori School of Engineering).

AU Engineering and Materials Science Day

October 26, 2006



From L-R: 1st place winners Daniel Crossen; Joe Jankowski, School Counselor (Oakfield-Alabama); 3rd place winner Michael Allen; and Dr. Alastair Cormack, Dean, Kazuo Inamori School of Engineering

Sixteen schools participated with a total of 87 students and 16 adults in the annual engineering and materials science day held on the Alfred University campus October 26, 2006.

The Scholarship exam winners are Daniel Crossen, Oakfield-Alabama Central School, first place, receiving a \$10,000 scholarship (\$2,500 per year, 4 years); second place went to Nicholas Caskey, Romulus Central School, \$8,000 scholarship, (\$2,000 per year, 4 years); and third place went to Michael Allen, Oakfield-Alabama Central School, \$6,000 scholarship (\$1,500 per year, 4 years). The students must enroll in one of the Kazuo Inamori School of Engineering programs upon high school graduation in order to receive the scholarships.

Congratulations go out to the students for a job well done.



From L-R: Mrs. LaVaune Caskey, 2nd place winner Nicholas Caskey (Romulus CS) and Dr. Alastair Cormack.

Academic Exchange

(Continued from page 1)

study abroad option in Japan, supplementing programs at Kansai Gaidai (Hirakata) and Ritsumeikan (Kyoto) Universities.

"We are really excited about this agreement as we expect that it will lead to the exchange of faculty and students and the development of research collaborations. Kagoshima is one of the major universities in Japan and is located in Dr. Inamori's hometown," remarked Dr. Alastair Cormack, dean of AU's Kazuo Inamori School of Engineering.

To learn more about engineering at Kagoshima University, visit http://www.eng.kagoshima-u.ac.jp/index_e.html.



At the Kagoshima signing: (seated, l-r) Dr. Yukihiro Nagata, MD, President Kagoshima University (KU); AU President Dr. Charles Edmondson; Dr. Alastair Cormack, Dean, Kazuo Inamori School of Engineering; (standing, l-r) Dr. Yasuo Suda, Professor of Nanotechnology and Director, Venture Business Lab, KU Inamori Academy of Management and Technology (IAMT); Mr. Takeo Agata, Head, KU International Cooperation Division; Dr. Youichi Minagawa, Dean, KU Faculty of Engineering; Dr. Kazunori Koga, Kyocera Corp; Dr. Toshiaki Yano, KU Exec VP & Director IAMT; Dr. Jay Smith, Assoc Prof IAMT; and Mr. Tomoetsu Kira, General Manager, Director KU Int'l Cooperation Department.

Hot Glass! CEMS 107: Materials Processing

The hot glass lab in CEMS 107 is one of many experiences in hands-on materials science available to all freshman engineers, one part of their introduction to the behavior and processing of ceramics, glasses, metals, electronic materials and polymers. Prior to this November 20th lab, the students had learned about glass melting and glass properties and had earlier batched their own glass.

Dr. Alexis Clare, professor of glass science, explains the hot-glass procedures to the students. Students had to work together, several assisting next student to don the protective silvery "moon suit" and face mask.



Below: The hot glass lab is a team effort! (L-R) The glass melt furnace was built by Terry Guild, processing and thermal analysis technical specialist, here discussing the furnace operation with Dr. Licio Pennisi (at left), Asst Director CACT and consultant in furnace design and combustion. Tech Spec Jim Thiebaut (center) assisted each student; electronics specialist Steve Conderman (rear right) helped keep operations running smoothly.



Above, each student manipulated the 4-foot-long tongs to extract the crucible of hot glass from within the over-1500°C furnace, transporting it to the pouring plate, below.

Dr. Clare assists and marks each piece using a graphite "AU" seal. Each student, after being un-suited, would rotate in to transport the hot glass to the annealing kiln.



NY Loves NanoTech! MRS Boston 2006

November 28-30, 2006
Hynes Convention Center,

The Kazuo Inamori School of Engineering's Center for Advanced Ceramic Technology joined representatives from more than a dozen New York companies and economic development groups in a special exhibitor area highlighting New York's commitment to Nanotech research at the Materials Research Society 2006 Fall Meeting, November 28-30, 2006, in Boston, MA.

The group, collaborated under the NY Loves Nanotech banner, set up a pavilion-style exhibit area at the event. The Center for Economic Growth, a non-profit regional economic group centered in NY's Capital Area, spearheaded the trip.



CACT Assistant Director Steve Arrasmith with the newly revised CACT profile package prepared for this meeting. Copies are available by contacting Marlene Wightman, wightman@alfred.edu



CACT director Vasantha Amarakoon greets alumna Jennifer (Shuler) Hydrick.



ACerS 2007 Glass & Optical Materials Division Meeting & 18th University Conference on Glass

Co-located at the DoubleTree Rochester, Rochester, NY

May 20-23, 2007

Organized by The American Ceramic Society (ACerS) and the NYS College of Ceramics at Alfred University

The 18th University Conference on Glass Science is scheduled for May 20-23, 2007, Rochester, NY. The topic of the conference is "Mass Transport in Glasses and Glass-Forming Melts." Conference organizer is Dr. Matt Hall, assistant professor of biomaterials and glass science.

The Conference is combined with the Glass and Optical Materials Division of the American Ceramic Society's Spring 2007 meeting, with a single registration fee for all UCG and GOMD programming.

Researchers from all areas of glass and optical materials science and technology are invited to attend this special combined conference and participate in a broad array of symposia encompassing Glass Science, Glass Technology, Optical Materials, and Transport Phenomena in Glasses and Glass Forming Melts. Joint



Dr. Matt Hall

sessions of mutual interest to both UCG and GOMD are also planned.

A Festschrift in honor of Dr. Connie Moynihan, emeritus professor of materials science and engineering at Rensselaer Polytechnic Institute, and author or co-author of over 180 publications on glass, will be held as Symposium 5 of the joint meeting.

For complete conference information on the ACerS 2007 Glass & Optical Materials Division Meeting. Go to <http://www.acers.org/glass2007/>.

Moynihan to present 2007 Scholes Lecture March 29, 2007

Dr. Cornelius T. Moynihan, emeritus professor of materials science and engineering at Rensselaer Polytechnic Institute will present the 2007 Samuel R. Scholes Sr. award lecture on Thursday, March 29th.

Moynihan, who received a PhD. in chemistry from Princeton University in 1965, was a faculty member in chemistry at California

State University at Los Angeles and in chemistry and materials science at the Catholic University of America in Washington, D.C., prior to joining the Rensselaer faculty in 1981. He is author, co-author, or co-editor of over 180 scientific publications and is a Fellow of the American Ceramic Society.

Moynihan's current research interests are thermodynamics, transport, electrical

and optical properties of glasses and liquids, including the effect of "dynamic heterogeneity" on glass transition behavior.



Dr. Cornelius Moynihan

Inamori School of Engineering at MS&T 2006!

Cincinnati, Ohio,
October 15-19, 2006

The Kazuo Inamori School of Engineering was well represented by current students, faculty and alumni at MS&T 2006; nearly 40 represented today's AU, with innumerable alumni and friends among the 3400+ attendees. The great turnout at this new cross-disciplinary format meeting, supported by the American Ceramic Society, ASM International, The Minerals, Metals & Materials Society (TMS), and The Association for Iron & Steel Technology (AIST), resulted in a lively intellectual and social atmosphere for all.



Randy Johnson



Robin Grimes

Visitors to the exhibition floor had a chance to enter a drawing for official Kazuo Inamori School of Engineering

sweatshirts and caps, with two lucky winners announced at the alumni reception on Monday night. Winners were long-time friends of the School, Randy Johnson (CE 1972, R.T. Vanderbilt Co.) and Robin Grimes (professor of materials physics, Imperial College London, UK). John W. Hoffman, Federal Mogul, Toledo, OH, won a copy of the Centennial History of the New York State College of Ceramics – FUSION. Congratulations to our winners!



CACT Director Amarakoon with Chris Pilko of Nabertherm Inc.

Reception Photo Gallery!

Approximately 100 alumni and friends gathered for the New York State College of Ceramics at Alfred University Alumni Event that was held in conjunction with the MS&T'06 meeting in Cincinnati, OH at the Millennium Hotel, High Spirits Restaurant, October 17th.

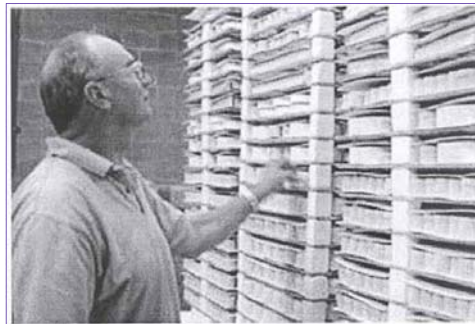
To view a photo gallery of the Alumni Reception go to:

http://engineering.alfred.edu/newsletters/SOE/january/photosMS_T2006_000.html

Incubator grad Vesuvius Hi-Tech celebrates 25 years of success

Before there was a name for the Ceramic Corridor, even before the Center for Advanced Ceramic Technology, business innovation in the high technology ceramics field fostered new businesses in the Southern Tier - most notably Vesuvius Hi-Tech Ceramics of Alfred Station, NY.

Founded by Jeff Morris ('76), John Jarrabet ('80) and William Meinking ('76), Hi-Tech grew from technology developed in the Alfred Research Foundation by Morris and former AU professor Bill Crandall for high temperature ceramic filters for metals



Truett Sweeting ('72), operations manager at Vesuvius Hi-Tech Ceramics, shows off some ceramic filters waiting to be fired at the company's facility on State Route 21 in Alfred Station. (Laurence Hovish photo from Hornell (NY) Evening Tribune)

processing. Buying the patent from Alfred University, Morris and his partners incorporated their business in August of 1981.

Building on the innovative technology and with the early support of the NYS College of Ceramics - a devastating 1985 fire shifted Hi-Tech's production to the McMahon Building mud lab! - the company has grown to employ 120 in its two Alfred Station facilities. Becoming part of Vesuvius in 1995, Vesuvius Hi-Tech ceramics supplies its advanced filtration solutions to over 70 countries.

\$5M NYS Nanotech award

(Continued from page 1)

\$5 million allocation for the Inamori School of Engineering.

The Kazuo Inamori School of Engineering offers programs in biomedical materials engineering science, ceramic engineering, materials science and engineering and glass science engineering (through the New

York State College of Ceramics, administered by AU) as well as programs in electrical and mechanical engineering. AU dedicated its engineering school in Dr. Inamori's honor in October 2005.

Recent Faculty Publications June - December 2006

PATENTS

Susceptor for hybrid microwave sintering system, hybrid microwave sintering system including same and method for sintering ceramic members using hybrid microwave sintering system. Gary E. DelRegno. US Patent no. 7,112,769. September 26, 2006. (assignee, Alfred University)

Patents: Tapping a valuable resource Pat LaCourse, Ceramic Transactions, v 173, Advances in Glass and Optical Materials - Proceedings of the 107th Annual Meeting of The American Ceramic Society, Wiley, 2006, p 105-111.

BIOMATERIALS

Bioapplications for photo-hydrolyzed glass surfaces Rebecca L. DeRosa, Ashleigh Cooper, Jean A. Cardinale. Ceramic Transactions, v 173, Advances in Glass and Optical Materials - Proceedings of the 107th Annual Meeting of The American Ceramic Society, Wiley, 2006, p 47-58.

ENVIRONMENTAL STUDIES

Hollow glass microspheres for use in radiation shielding A.S. Geleil, M.M. Hall, J.E. Shelby. Journal of Non-Crystalline Solids, 352(6-7), p 620-625 (2006).

GLASS PROPERTIES

Crystallization kinetics of lithium orthosilicate glasses Lothar Wondraczek, Scott T. Misture, Joachim Deubener, Regina Knitter, J. Amer. Ceram. Soc., 89 (4) p 1342-1346 (2006).

New Model Of The Glass Transition

J. C. Mauro and A. K. Varshneya, American Ceramic Society Bulletin, 85 (8), p 25-28 (2006).

Multilayer colloid formation in soda lime silica glass F.C. Raszewski, K.A. Murphy, J.E. Shelby. Journal of Non-Crystalline Solids, 352(6-7), p 528-533 (2006).

Volatilization of boron from E-glass melts

M.J. Snyder, M.G. Mesko, J.E. Shelby. Journal of Non-Crystalline Solids, 352(6-7), p 669-673 (2006).

Formation and Properties of Soda Lime Borate Glasses L. M. Donohoe & J. E. Shelby, Phys. Chem. Glass: Eur. J. Glass Sci. & Tech., Part B., 47(1), p 16-21 (2006).

Formation and Properties of Sodium Tantalum Silicate Glasses S. D. Conzone and

J. E. Shelby, Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. 47(3) p 283-87 (2006).

Properties of Arsenic and Antimony Borate Glasses S. Chatlani and J. E. Shelby, Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. 47(3) p 288-93 (2006).

Properties of Binary GeO₂-SiO₂ Glasses E. M. Birtch, J. E. Shelby, & M. J. Whalen. Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. 47(2) p 182-85 (2006).

Effect of SnO Additions on Decolourisation of Amber Glasses M. M. Ashton-Patton, D. B. Rapp, & J. E. Shelby, Phys. Chem. Glasses: Eur. J. Glass Sci. Technol. 47(2) p 236-39 (2006).

MATERIALS PROCESSING

Preparation of hollow glass microspheres from sol-gel derived glass for application in hydrogen gas storage M.L. Schmitt, J.E. Shelby, M.M. Hall. Journal of Non-Crystalline Solids, 352(6-7), p 626-631 (2006)

Formation of low density polyethylene/hollow glass microspheres composites M.M. Ashton-Patton, M.M. Hall, J.E. Shelby. Journal of Non-Crystalline Solids, 352(6-7) p 615-619 (2006).

Selective batching for improved commercial glass melting Ungsoo Kim, Eric J. Nichols, William M. Carty, Christopher W. Sinton. Ceramic Transactions, v 173, Advances in Glass and Optical Materials - Proceedings of the 107th Annual Meeting of The American Ceramic Society, Wiley, 2006, p 87-94.

MATERIALS PROPERTIES - CRYSTALS AND POLYCRYSTALS

Materials properties of nano-sized FeAlN particles in thin films Y. Liu, R. Miller, D. Li, Q. Feng, W. Votava, T. Zhang, L. Dunkleberger, X. Wang, R. Gray, T. Bibens, J. Helfer, K. Mooney, R. Nowak, and P. Lubitz, in Ceramic Transactions Volume 190, Characterization, Design, and Processing of Nano-sized powders and Nanostructured Materials, - Proceedings of the 107th Annual Meeting of The American Ceramic Society, Wiley, 2006, p 191-201.

Testing of piezoresistive polyurethane-Fe₃O₄ composites W.B. Carlson, S.F. Bartkowski, W.A. Schulze, S.M. Pilgrim. Ferroelectrics, 331, p83-88 (2006).

Process variables, dielectric properties, and microstructures of multilayer ceramic capacitors with Ni internal electrodes

Qiquan Feng, Caspar J. McConville, Doreen D. Edwards, Daniel E. McCauley, Mike Chu. Ceramic Transactions, v 174, Advances in Dielectric Materials and Electronic Devices - Proceedings of the 107th Annual Meeting of The American Ceramic Society, Wiley, 2006, p 237-247.

Mercury porosimetry: A general (practical) overview Herbert Giesche. Particle and Particle Systems Characterization, 23(1), p 9-19 (2006).

MATERIALS STRUCTURE

In Situ X-Ray Diffraction Studies of Electroceramics (INVITED ARTICLE) Scott T. Misture, J Electroceramics, 16 (2) 167-78 (2006)

Azine bridged silver coordination polymers: Powder X-ray diffraction route to crystal structure determination of silver benzotriazole Manju Rajeswaran, Thomas N. Blanton, David J. Giesen, David R. Whitcomb, Nicholas Zumbulyadis, Brian J. Antalek, Marcus M. Neumann, Scott T. Misture, Journal of Solid State Chemistry, 179(4), 1053-1059 (2006).

Study on Nano-Tubular Halloysite D. Li and X. Wang, in Proceedings of "Materials Science and Technology (MS&T 2006: Materials and Systems)" Volume 2, pages 449-460, Cincinnati, Ohio, October 2006.

MODELING - GLASS PROPERTIES

Multiscale modeling of GeSe₂ glass structure John C. Mauro and Arun K. Varshneya, Journal of the American Ceramic Society, 89 (7), 2323-2326 (2006).

MODELING - POLYCRYSTALLINE MATERIALS PROPERTIES

Formulation of electrostrictive stresses in dielectric bodies via an airy stress function W.B. Carlson and D.E. McCauley. Ferroelectrics, Letters Section, 33 (1-2), 21-24 (2006)

Approximation of electromechanical stresses in MLC capacitors due to internally clamped strains W.B. Carlson and D.E. McCauley. Ferroelectrics, 330 (1), 37-44 (2006).

Faculty Briefs

Dr. Alfonso Pedone, University of Modena, Italy, has been a recent academic research visitor in the Kazuo Inamori School of Engineering, working with Dr. Alastair Cormack on computer simulations of the elastic properties of glasses, including their fracture. Dr. Pedone's work at AU was supported by a grant from the NSF International Materials Initiative (IMI) on functional glasses at Lehigh University.

Dr. Scott Misture, associate professor of materials science, will present "Behavior of Bulk and Thin Film SOFC Cathode Materials Under Low Oxygen Partial Pressures" (co-authors Jeffrey White, AU, and Robert Naum, Applied Coatings, Inc.) at January's Cocoa Beach meeting (January 21-26, 2007). An internationally recognized expert in diffraction techniques, Misture was recently honored to serve on the Bruker AXS Scholarship review panel at the MRS Boston Meeting.



Scott Misture

Dr. David Earl, associate professor of ceramic engineering and materials science, will also contribute to the Cocoa Beach meeting, as coauthor of "Microstructures of Microwave-Sintered Silicon Nitride Zirconia as secondary Particulates" (with Qiquan Feng (presenting author), technical specialist/microscopist; and PhD student Sreekumar Chockalingam).



David Earl

Dr. Alastair Cormack, Van Derck Fréchette Professor of Ceramic Science, and Dean, Kazuo Inamori School of Engineering, presented an invited talk at the XIth International Conference on the Physics of Non-Crystalline Solids held in Rhodes, Greece, from 28 October - 3 November 2006. Cormack traveled on from Greece to Japan, visiting Kagoshima University with



Alastair Cormack

AU President Charles Edmondson. President Edmondson signed an Exchange Agreement with Kagoshima University, laying the groundwork for future student and faculty academic exchanges.

While in Japan, Cormack presented seminars at Kobe University and Ritsumeikan University. Alfred University has an exchange agreement with Ritsumeikan University, the largest private university (and amongst the most prestigious) in Japan. Currently, a number of Ritsumeikan students are on campus, although none are currently engineering students.

Cormack also visited Kyocera's R&D facility to discuss the research programs that they sponsor in the Inamori School of Engineering. He and AU President Charles Edmondson visited Kyoto, meeting with the President and Chairman of Kyocera at their headquarters. They also attended the Kyoto Prize Ceremony, where they had an opportunity to meet with Dr Kazuo Inamori prior to their return to AU.

And on the lighter side ...



Dean Cormack and Dean Lewis (Dean of the NYSCC School of Art & Design, at right), are always up for a challenge - this one from AU Provost Dr. Suzanne Buckley, who noted that many of the University administrators are now women. Are men still good enough? Could Cormack and Lewis "rise" to pass the "Ginger Rogers test"?

No problem!

(At left, Dr. Alix Clare, Emcee of the NYSCC Holiday Party).

"Remember, Ginger Rogers did everything Fred Astaire did, but backwards and in high heels."

(Faith Whittlesey)



Dr. Alix Clare, professor of glass science, teams up with Dr. Bill LaCourse, Kruson Distinguished Professor of Glass Science, to give visiting high schoolers the "mad professors" introduction to materials science at Engineering and Materials Science Day in October 2006.

Cheer for our team! Engineers in AU sports

With almost one quarter of Alfred University's Engineers participating in AU varsity athletics, there's always a friend to cheer for! Despite the pressures of the engineering academic program, or perhaps because of its discipline, engineers excel in sports. Alfred University is a member of the Eastern College Athletic Conference (ECAC), competing in the Empire 8 conference of NCAA Division III.

Check out the schedules and mark your calendars to support Saxon athletics!

In **AU Football**, twenty engineers helped propel the Saxons to an overall 8-3 season, finishing 3rd in the Empire 8.

Freshmen: Ryan Pritchard (DL, ME), Mark Harstad (DL, ME), Joshua Kowalski (LB, ME), Derek Moody (LB, BMES), Michael Haasis (DB, undecided);

Sophomores: Robert Headwell (DE, CES/BUS), Sheldon Forbes (FB, EE), Justin Hamblin (FB, MSE), Kenneth Albrecht (FS, BMES), John Soule (LB, CES), Joseph Yesesky (NG, ME), Alan Johnson (OL, EE);

Juniors: Michael Penkin (DT, EE), Chris Reynolds (K, EE), Kasey Kryder (TE, ME); and

Seniors: Patrick Kreski (P, GES/PHYSICS), Benjamin Stanton (WR, CES), and Paul Torrey (WR, EE).

AU Soccer finished with an 8 - 8 season, 4th overall, with the help of coach Alex Carp (senior, ME) and seniors Zach Wise (ME), Adam Morgan (ME), Brian Piccardo (MSE), Jim Roberts (CES), and David Suddaby (ME). Freshmen Mike Busiman (CES) and Mike Tomik (CES), and junior John Hawes (ME) will return next season. Zach Wise was named 2nd Team All-Conference and Adam Morgan was Honorable Mention for All-

Conference. Hawes, Suddaby and Wise are in the 4+1 MBA program.

In another fall sport, **AU Tennis** players included junior Michael Christofferson (CES) and sophomores Tim Pruyt (CES) and Elana Lewis (MSE).

Winter-to-Spring sports include **AU Track and Field**, which has begun its indoor winter season and will continue through the spring in outdoor competition. Competing are freshmen Jesse Schuster (MSE), Matt Phillips (CES), and Jim Thierman (undecided);



Jim Roberts (blue jersey), Mike Tomik, Dave Suddaby and Mike Busiman



Alex Karp (red shirt) Roberts and John Hawes (white jersey)



Adam Morgan and Zach Wise

sophomores Aaron Dibble (ME) and Kathryn Northup (ME); with juniors Brenden Hill (CES), Erik Jezek (CES), Dan Ohart (ME), Ashley Johnson (ME), Aidan Grace (ME), Matthew Karczewski (EE), Justin Parietti (MSE/CHEM), Jason Shirk (CES/ART) and Brenden Hill (CES).

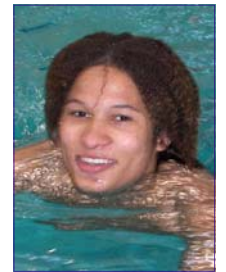
AU Equestrian Lisa Landis (junior, EE) has returned to AU's English Equestrian team, a strong competitor in open equitation on the flat and intermediate over fences.

In winter sports, **AU Swimming and Diving** teams include Freshmen Kameron Chambliss (MSE) and Meghan Jones (BMES); Sophomores Anthony Cantone (GES) and Scott Sarkissian (EE); with Seniors Brandon Striker (CES) and Erin Collins (BMES). Cassandra Clark (BMES), also a senior, should return to the team after completing her Fall Co-op.

Engineer Jamie Waite (junior, EE) competes on **AU Basketball** as forward, averaging a solid 6 points and 7 rebounds per game.

Looking forward to Spring sports, **AU Lacrosse** players

include sophomores Jason Edwards (ME), Eric Goins (CES), Bill Lepry (CES), and Doug Kulp (ME); and juniors Andy Aylward (ME), Drew Foster (CES) and Ed Leoni (CES). Brian Adams (BMES), who played at midfield last season, will be participating in Study Abroad in spring '07.



Kameron Chambliss



Jamie Waite

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