

ENGINEERING News

Kazuo Inamori School of Engineering
Alfred University

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Jones to present McMahon Award Lecture

Thursday, October 16, 2008

11:20 am - Holmes Auditorium, Harder Hall



Dr. Linda Jones

The Kazuo Inamori School of Engineering will welcome Dr. Linda Jones, director of the Smith College Picker Engineering Program and Rosemary Bradford Hewlett '40 Professor of Engineering, to the Holmes auditorium podium to present the annual John F. McMahon Award Lecture on Thursday, October 16, 2008.

Jones is the recipient of research grants from the National Science Foundation's Center for Glass Research, the Environmental Protection Agency, and the Knolls Atomic Power Laboratory Carbon/Carbide Materials Branch.

Jones was named the American Carbon Society's Graffin Lecturer for her distinguished contributions to carbon science and engineering. She currently serves on the American Carbon Society's executive board and is active with the European and Asian Carbon Society. She has

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Engineers show skills at AU Spring Weekend

Alfred University Spring Weekend (a.k.a. Hot Dog Day) featured not only the crazy parade and carnival for charity but two major engineering challenges that have also become AU traditions – The Pine Hill Derby and the Hot Dog Launch Challenge. Each event continues to surprise the audience with design solutions that achieve their engineering goals while bordering on performance art!



"This is Not a Dodge" The most environmentally friendly award winner (Karl Urban-Captain and Jeff Gump).

(This is Alfred, after all!)

The weekend kicks off with the running of the Pine Hill Derby, a gravity vehicle race sponsored by Mechanical Engineering. The race involved safely navigating the treacherous hairpin at the north end of the Pine Hill loop at maximum speed while still maintaining safety in steering and braking - 28 teams entered, with

(Continued on page 8)



OCTOBER 5-9, 2008
DAVID L. LAWRENCE CONVENTION CENTER
1000 FORT DUQUESNE BLVD
PITTSBURGH, PA

The CACT and Inamori School of Engineering will be pleased to welcome you at the MS&T 2008 Exhibition! Stop in at Booth 632 - the perfect meeting place to connect with friends and colleagues!

EXHIBITION HOURS:
OCTOBER 7
11:00 AM – 6:00 PM
OCTOBER 8
10:00 AM – 5:00 PM

ALUMNI RECEPTION
TUESDAY, OCTOBER 7, 2008
6:30 – 8:00 PM
WESTMORELAND CENTRAL ROOM
WESTIN CONVENTION CENTER

Contact Marlene Wightman,
Director of Continuing Education/
Outreach, wightman@alfred.edu,
for more information.

Johnson is ASME scholarship winner

Ashley M. Johnson (BS '08, ME) was awarded the ASME Olean Section 2007-2008 Scholarship at their April Meeting, held in Alfred University's Knight Club, April 22, 2008. At right, Chuck Wisner, a retired faculty member from Alfred State College, presents the ASME Scholarship check to Ashley Johnson.

The meeting highlight was the Student Speech Competition, with contributions from six student teams representing AU and ASC.

The first place (\$200) prize was awarded

for the presentation "Basic Utility Vehicle" by Dave Maples, Tim Beecher, Dave Winquist, Kyle Colbey, and Nick Van De Weert (Mechanical Engineering Technology, ASC).

Second place (\$100) was awarded for "Modifications to the Alfred University Gravity Racer (AUGR)" by Karl E. Urban and Joseph B. Kovac (both AU BS '08 ME); while third place went to Johnson for her presentation "Brat Country Cargo Trailer."



Ivovich wins Innovation Award; GreenAlfred gets an Alfie!

Andrew Ivovich (senior, MSE) has been awarded the 2008 Richard V. Bergren, Jr. Student Innovation Award by the Alfred University Board of Trustees. Ivovich was honored for his work with GreenAlfred, a student organization working on campus-wide efforts for recycling and sustainability.



This year's projects have included working with AU Dining Services to eliminate trays, promoting a pilot Green program in Reimer Residence Hall, establishing outdoor recycling

collection points, and cleaning up the Kanakadea Creek.

For its efforts, GreenAlfred also won the Alfie Award for "Outstanding new Organization" and shared the Alfie "Outstanding Campus Spirit by an Organization" with the AU Orientation Guides.

The Bergren Student Innovation Awards are funded through the generosity of the AU Board of Trustees and are named in honor of the Rev. Dr. Richard V. Bergren, Jr. These awards honor Rev. Bergren's scholarship, teaching, and regard for students.

Each year the Trustees recognize a student, or group of students, who

identifies a need within the AU community and develops solutions to address that need that will have a lasting impact. The winner receives a cash prize and a matching donation to the organization's budget in order to sustain the innovation in coming years.

The "Alfies" are AU's version of the Academy Awards. Outstanding performance in all areas of campus life are honored through the Alfie Awards each spring.

Johnson, Ohart on cross-USA trek



Ashley Johnson and Dan Ohart (also AU BS '08 ME) departed May 23rd for a 5000 mile trek across America this summer on her bicycle with the award-winning "BRAT-2" in tow. The trailer (at left, in an off-road trial this winter) was designed for her capstone senior design project in Mechanical Engineering to transport 100 lbs of gear and supplies with minimum drag or wind resistance and without degrading bike handling.



Johnson and Ohart's route winds from Yorktown, Virginia to Astoria, Oregon. Just how is Ohart dealing with his share of the load?

Engineers Honored at Alfred University Convocation

The Alfred University community gathered on Friday, April 25, 2008, to celebrate the many honors and awards achieved by their students. Among the students recognized were many from the Inamori School of Engineering. Descriptions of all undergraduate engineering awards can be found at <http://engineering.alfred.edu/about/awards.html>.

Cody J. Blazer (Sophomore EE) - The Donald R. Pautz Memorial Award

Samuel J. Burlingame (Junior MSE) - Harry J. Odink Memorial Award in Ceramic Engineering

Larissa M. Buttaro (Freshman MSE) - The William B. Crandall '42 Scholarship

Julian R. Carpenter (Senior* GES) - Faculty Award for outstanding CEMS Senior and General Electric Excellence in Glass Science Award

Sarah E. Chiara (Junior CE) - Curtis E. Scott '72 Scholarship Endowment

Travis S. Curren (Junior) - American Society of Mechanical Engineers Outstanding Student Award

Kyle V. Dupuis (Senior* CE) - The College of Ceramics Endowed Performance Fund

James H. Edmonston (Senior* CE) - Materials Research Society Outstanding Senior Poster Award

Zachary M. Egidi (Sophomore BMES) - C.A.N.Y. Scholes Award

Jaime L. George (Junior BMES) - The Jim R. Tinklepaugh Memorial Scholarship

Adam J. Gernstl (Senior ME) - Faculty Award for Professional Achievement in Mechanical Engineering

Katelyn C. Glass (Junior MSE) - The Jim R. Tinklepaugh Memorial Scholarship

Daniel S. Griffin (Senior* MSE) - Undergraduate Tutor Award

Bradley N. Grillo (Senior* ME) - Alfred Research Grants for Undergraduate Students

Bethany M. Hauser (Senior* CE) - Advancement of Women in Engineering Award

Brittany L. Higgins (Senior MSE) - Faculty Award for Outstanding CEMS Junior

Ashley M. Johnson (Senior* ME) - Faculty Award for Academic Excellence in Mechanical Engineering

Anatoly Kishinevski (Junior GES) - The Mark S. Miller Memorial Scholarship and Harry J. Odink Memorial Award in Ceramic Engineering

Patrick K. Kreski (Senior* GES) - State University of New York Chancellor's Award for Student Excellence

Jieun Lee (Senior CE) - Korean Alumni Association of Alfred University Award (given annually to a senior or graduate student who is an outstanding international or minority student within the College of Ceramics)

Stephanie I. Morris (Senior GES) - The Dr. Richard C. Martin Outstanding Senior Scholarship

Justin C. Parietti (Senior* MSE) - The College of Ceramics Endowed Performance Fund Milton A. Turtle Award

Lauren K. Pfeifer (Sophomore MSE) - All American Honors Award (Alpine Skiing)

Matthew J. Phillips (Sophomore CE) - Brenda Johnson Memorial Award (made annually to an outstanding music student in memory of Brenda Carol Johnson, a 1960 graduate of Alfred University)

Daniel W. Steere (Freshman CE) - The William B. Crandall '42 Scholarship

Brandon J. Striker (graduate student MSE) - Materials Research Society Outstanding Senior Poster Award

Karl E. Urban (Senior* ME) - Faculty Award for Professional Achievement in Mechanical Engineering

Savannah C. Williams (Senior* EE) - Faculty Award for Outstanding Electrical Engineering Senior

Jennifer A. Winikus (Senior* EE) - Bortz Family Award (presented to the undergraduate student who has done the most during the past year to enhance Jewish Life at Alfred)

HIGHEST RANKING STUDENTS

These students have earned the highest cumulative grade point average in their respective classes. Except for freshmen, these honors are based upon at least two semesters in residence.

Alex D. Weller - Senior
Changcheng J. Wang - Junior
Kaleb Von Berg - Sophomore
Daniel H. Howard - Freshman
Hei Ling Ng - Freshman
Jordan A. Patric - Freshman
Thinn New Soe - Freshman

*Graduating Senior

Engineering and Materials Science Day is October 30, 2008 - Is your School entered?

The Alfred University Inamori School of Engineering will host its annual Engineering and Materials Science Day and scholarship exam for high school juniors on Thursday, October 30, 2008. Regional students will compete for valuable engineering scholarship awards. Last year about twenty schools participated - yours can, too!

Students and their chaperones will enjoy engineering laboratory tours and demonstrations and participate in the scholarship examination. Scholarship awards can be used for any of the engineering degree programs at AU.

First place will be awarded a scholarship of \$10,000 (\$2500/yr for 4 years), with second and third place

winning \$8000 and \$6000 awards, respectively.

Students must be accompanied by a teacher or guidance counselor from their school to attend. For more information contact Marlene Wightman, Director of Continuing Education/ Outreach, wightman@alfred.edu.

2008 Short Courses - lifelong learning for professional success!



The fractography classroom was filled to capacity for Jim Varner's annual intensive hands-on course, "Fracture Analysis of Glasses and Ceramics"! (June 2-4, 2008)

The Inamori School of Engineering buzzed with activity as life-long learners joined our campus for the 2008 short courses. First-rate equipment and comfortable classrooms complemented the faculty skills and student interest to create an invigorating collegiate atmosphere - plan on joining us next year on campus or let us design an on-site course just for your company's needs!

Find out more about lifelong professional learning through Short Courses at our website, <http://engineering.alfred.edu/shortcourses>, or contact Marlene Wightman, Director of Continuing Education/ Outreach, wightman@alfred.edu.



"Introduction to Glass" with Matt Hall (in stripes) was well attended by an enthusiastic class eager to expand their professional knowledge of glass. (June 23-25, 2008)

Varner is co-organizer of "Ultrastrong Glasses"

Congress and Exhibition on Advanced Materials and Processes

Nürnberg, Germany
September 1-4, 2008
<http://www.mse-congress.de>

Dr. James Varner, professor of ceramic engineering and materials science, is co-organizer (with Prof. Dr. Lothar Wondraczek, Universität Erlangen-Nürnberg) of Symposium B18: Towards Ultrastrong Glasses at the Congress on Advanced Materials and



Processes. The symposium is being organized with the cooperation of two technical committees of the ICG: TC03 (Structure of Glass: Adrian Wright, Chair) and TC06 (Mechanical Properties of Glass: Jim Varner, Chair).

The symposium will focus on recent progress in understanding how glasses break, on different timescales, and how such knowledge could be used to develop stronger glasses. Part of the

symposium will explore the relationship between glass structure and strength, and what needs to be done to achieve stronger glasses. Topics will include fracture of glasses, fatigue and theoretical strength, strategies towards ultrastrong glasses and glass ceramics, structure/strength relationships, and new applications.



Greenwood Technologies is newest CACT Affiliate

Greenwood Technologies (<http://www.greenwoodfurnace.com>), based in Bellevue, WA, is the latest CACT Affiliate to select the Alfred Ceramics Corridor Innovation Center as their New York base for the development of next-generation high efficiency biomass and wood boilers for home, business and farm applications.

Their three product lines, the Greenwood Furnace, the Aspen and the Pelco, boast nearly smokeless performance; Greenwood furnaces for home heating have earned the EPA

Green Label. 2008 corporate sales are expected to exceed \$10M and triple by the end of the decade as greener and more efficient renewable energy sources become more essential.

The turn-key facilities of the Alfred CCIC, coupled with ready access to the research and characterization resources of the Inamori School of Engineering available through the CACT, made this location decision easy!

The new R&D venture strives to improve all aspects of energy efficiency of these advanced combustion

systems. New materials and design for the combustion chamber are currently under investigation to reduce mass by up to 40% while reducing thermal leakage to improve combustion efficiency.

Greenwood is also working with Cornell University Agriculture to better adapt their larger "Pelco" system for biomass conversion for use with New York State vineyard wastes.

CACT EAB, CANY and WNYACerS to meet October 16

The Center for Advanced Ceramic Technology's Engineering Advisory Board will meet on Thursday, October 16, 2008, prior to the McMahon Award Lecture.

The meeting is scheduled for 8:30 – 11:00 am in the board room of the Ceramics Corridor Innovation Center, Alfred,

NY. The CACT EAB meets twice a year to review and discuss CACT programs.

Joint meetings of the Western New York Section of the American Ceramic Society and the Ceramic Association of New York will follow the McMahon Lecture Luncheon.

For more information or lunch reservations, please contact Marlene Wightman, Director of Continuing Education/Outreach, wightman@alfred.edu.

McMahon Award

(Continued from page 1)

authored more than 80 publications for a range of scientific journals.

Jones served as a member of the School of Engineering faculty from 1991 to 2005. During that time she received the distinguished SUNY Chancellor's Research Recognition Award and many teaching honors.

The John F. McMahon Lecture was created in 1980 by Alfred University alumni to honor Dr. McMahon for his contributions to ceramic science and engineering. Each year, a distinguished ceramic scientist or engineer delivers the lecture and receives the John F. McMahon Award.

17TH INTERNATIONAL CONFERENCE ON SOLID STATE IONICS (SSI-17)

June 28 - July 3, 2009

Fairmont Royal York Hotel

Toronto, Canada

It's time to plan your submission to this important international event. Submission of Abstracts via the website, www.ssi-17.net, starts in September 2008!

The program will be structured around the applications of solid state ionics: polymer fuel cells, high temperature fuel cells and batteries (aqueous, lithium, HT). Within each of these themes will be papers discussing the following typical subjects: ionic fundamentals, diffusion, solid electrolytes, mixed conductors, novel materials, measurement techniques, sensors.

There will also be a number of special symposia: The Huggins Symposium in honor of Robert Huggins' 80th Birthday; The Dokiya Symposium, featuring Dokiya Scholarship young scientist winners, and the SFB 458 Colloquium.

The SSI conferences, held every two years, promote international collaboration and cooperation and provides a forum for scientists and engineers to discuss fundamentals, innovations and applications in the field of ion transport in solids.

Dr. Alastair N. Cormack, dean of the Inamori School of Engineering, is the conference organizer.

Contact Marlene Wightman, Director of Continuing Education and Outreach, wightman@alfred.edu, for more information.



Faculty news and updates for Fall 2008

A few new faces will be noted in the Inamori School of Engineering faculty when students return in the Fall.

Dr. Olivia Graeve comes to us from the University of Nevada Reno as an associate professor of materials science and engineering. Her interests are in the synthesis and processing of nanostructured materials. She is a recent winner of an NSF CAREER award and has



Dr. Olivia Graeve

also just received an NSF STTR grant, in cooperation with AMAD, Inc, for the development of tungsten and iron nanopowders, which have applications in UV radiation filtering, among others. She earned her PhD from the University of California, Davis.

Dr. Nathan Mellott will join us from Guardian Glass as an assistant professor. His expertise and interests are in the field of glasses, particularly of surface properties and coatings. He earned his PhD from Penn State and spent 18 months at the University

of Padua, Italy, on an NSF funded post-doctoral fellowship.

Dr. Mark Towler will join us in August 2009 as an Inamori Professor. He is currently head of the Clinical Materials Unit at the University of Limerick, Ireland.

Sadly, we will miss **Dr. Rebecca DeRosa**, associate professor of ceramic engineering and materials science. DeRosa is leaving the faculty this summer to start a new career at Corning, Incorporated. The Inamori School of Engineering wishes her well and hopes for her continued collaboration!

On the lighter side ...

The Hot Dog Day Parade and Carnival, a highlight of Alfred University's Spring Family Weekend, were great crowd-pleasers on that beautiful southern tier spring day and a great opportunity to see a different side of some Inamori School of Engineering faculty!

Yes, that's black-belt instructor Scott Misture (a.k.a. Inamori Professor of Materials Science and Engineering) marching with the Alfred Karate School. Dean Cormack and Dean Lewis, Dean of the School of Art and Design, also marched to show off their whiskers with the American Mutton Choppers (but we embarrassed them with a picture last year!)

Many more of our faculty enjoyed the day's festivities and competitions with their families from the sidelines.



Updated SOE faculty publication list now available



The latest faculty research publications can be found on our website, <http://engineering.alfred.edu/research/recentpubs.html>. Updated every six months, the listing includes many on-line articles you can view today.

Faculty organize sessions at MS&T 2008

Dr. Doreen Edwards, professor of materials science and engineering, is co-organizer of "International Symposium on Defects, Transport and Related Phenomena" at the upcoming MS&T 2008 (October 5-9, 2008, Pittsburg PA).



Dr. Doreen Edwards

Symposium topics will include ionic, electronic and mixed conductors for SOFCs, batteries, sensors, electrochromics, transparent conductors, and nanocrystalline, magnetic, magnetoresistive, ferroelectric, dielectric and superconducting ceramic materials; including high-resolution microanalysis of defect structures as well as on the computer modeling of defect energetics.

Dr. L. David Pye, emeritus professor of glass science, is organizing a special symposium on the occasion of the 110th anniversary of the founding of The American Ceramic Society (ACerS).



Dr. L. David Pye

The one-day symposium is planned in conjunction with MS&T 2008 and the scheduled ACerS Annual Meeting in the city where ACerS was founded, Pittsburgh PA.

The symposium will critically review major technological achievements in the field of ceramic science and engineering over the last 10 years, and also elucidate emerging technologies and challenges that will impact research, innovation, and education in the next decade. To accomplish this goal, invited-only presentations scanning the field of ceramics will be given by exceptionally accomplished and highly respected speakers representing academe, industry and national research laboratories. Members of a concluding panel will discuss and summarize critical issues and opportunities identified during the symposium, and will be charged with defining pathways forward in advancing the field of ceramics.

The Inamori School of Engineering presents the Class of 2008!

Bachelor of Science in Biomedical Materials Engineering

Cassandra C. Clark *cum laude, Engr Honors*
(Dec. '07)
Maggie L. Ezell (Dec. '07)

Brenden E. Hill *magna cum laude, Engr Honors*
Elizabeth S. Johnson *cum laude, Engr Honors,*
University Scholar (Dec. '07)

Morgan E. Lovejoy (Aug. '07)
Jessica R. Nowalk (Dec. '07)
Matthew P. Saunders (Aug. '07)

Bachelor of Science in Ceramic Engineering

Jodi D. Butterfoss (Dec. '07)
Patrick J. Cregan
Kyle V. Dupuis
James H. Edmonston *Engr Honors* (Dec. '07)
Brian G. Gymburch (Dec. '07)
Michael J. Hartel (Aug. '07)
Bethany M. Hauser

Yeonjin Kwak
Casey R. Marion
Anthony J. Munto
Henry D. Traver
Andrew A. Payne *magna cum laude,*
Engr Honors
Tyler E. Reisner (Dec. '07)
Nicole M. Thompson (Dec. '07)

Andrew H. Rice *cum laude*
John E. Roets *cum laude, Engr Honors* (Dec. '07)
Michael J. Rogus
Mark A. Roscup (Dec. '07)
Kevin T. Strong, Jr. *cum laude, Engr Honors*
Joel A. Teribury *Engr Honors*

Bachelor of Science in Electrical Engineering

Jason E. Hurley *Engr Honors*
Shem B. Lachman
Seward C. Landaverde
Lisa S. Landis *cum laude, Engr Honors*
Meridith L. Leigh *Engr Honors* (Dec. '07)

Paul M. Torrey (Dec. '07)
Nicholas A. Martucci *cum laude, Engr Honors*
(Dec. '07)
Michael S. McNeill (Aug. '07)
Michael J. Penkin *cum laude, Engr Honors,*
University Scholar

Jeremiah E. Washer
Savannah C. Williams *cum laude*
Jennifer A. Winikus
Matthew D. Zahm *cum laude, Engr Honors,*
University Scholar

Bachelor of Science in Glass Engineering Science and Bachelor of Arts

Patrick K. Kreski *magna cum laude, Engr Honors* (Dec. '07)

Bachelor of Science in Glass Engineering Science

Julian R. Carpenter *magna cum laude,*
Engr Honors

Jesse R. Karkheck *cum laude, Engr Honors*
(Dec. '07)
George W. Keith IV (Dec. '07)

Eric J. Teator
Scott J. Turchetti
John C. Walsh III (Dec. '07)

Bachelor of Science in Materials Science and Engineering and Bachelor of Arts

Justin C. Parietti *cum laude, Engr Honors*

Bachelor of Science in Materials Science and Engineering

Keith J. Becken *cum laude*
Michael A. Christofferson *Engr Honors*
Daniel W. Gaede

Daniel S. Griffin *cum laude, Engr Honors*
Matthew D. Williams
Cameron E. Luce *cum laude*

Brian M. Piccardo
Christy L. Powell *Engr Honors* (Dec. '07)
Benjamin J. Stanton

Bachelor of Science in Mechanical Engineering

Andrew P. Aylward (Dec. '07)
Timothy D. Brass
Dennis W. Buckley (Dec. '07)
Bryan C. Duke
Bradley N. Grillo *magna cum laude, Engr Honors*
Jeffrey J. Gump
John A. Hawes *cum laude, Engr Honors*
Adrian W. Johnson

Ashley M. Johnson *summa cum laude,*
Engr Honors
Joseph B. Kovac *magna cum laude,*
Engr Honors
Kasey J. Kryder
Douglas S. Kulp
Abraham L. Miller (Dec. '07)
Daniel L. Ohart

Bradley M. Penhollow *cum laude, Engr Honors*
Chad D. Sopp
David A. Suddaby *cum laude, Engr Honors*
(Dec. '07)
Karl E. Urban
David J. Vitulli
Zachary E. Wise (Dec. '07)

Doctor of Philosophy in Ceramics

Robert A. Lacey (Dec. '07) -

*"A Study of the Microchemistry of Nanocrystalline BaTiO₃
with Tetragonal and Pseudocubic room Temperature Symmetries"*

Doctor of Philosophy in Glass Science

Melissann M. Ashton-Patton

"Properties of Mixed Alkali Germanate Glasses"

Krista L. Carlson

"DNA Adsorption onto Glass Surfaces"

Doctor of Philosophy in Materials Science and Engineering

Juergen Walker (Aug. '07)

*"Influence of Drawing Conditions on the Properties of Bismuth
Borate Glass Fibers"*

Master of Science in Biomedical Materials Engineering Science

Anirudh Bhetala

Jessica L. Racliffe (Aug. '07)

Ryan P. Thatcher (Dec. '07)

Master of Science in Ceramic Engineering

Bernard P. Gridley

Robert L. Hausrath

Thomas F. Lam (Dec. '07)

Amit Rajanikant Shah (Dec. '07)

Spring Weekend and Hot Dog Day 2008



(Continued from page 1)

22 surviving to the second round!

Adam Gernstl driving "King Kong" (left) finished first overall (\$100), with team "Gravity's Hero" (center; Samuel Lamphier-Captain, Larissa Buttaro, Cameron Gibbons, Brett McDonough) taking second. Third place finishers were team "Boo's Crew" (above, right; Wesley Franz-Captain, Wally Bettin, Chris Reynolds, Matt Zahn).

The most environmentally friendly award winner was "This is not a Dodge" (see page 1; Karl Urban-Captain, Jeff Gump), while the overall crowd pleaser was "Most Unique" winner "Flintstones" (above; Harrison Hendricks-Captain, Adam Gernstl, Wade Pierce, Jim Thierman, Weston Ulrich. Fiat Lux photo by Nadine Titus).



The Hot Dog Launch competition is a must for freshmen engineers and is a favorite for local competitors, too. The competition followed the annual parade and featured a classic array of trebuchets, slingshots and catapults. Some not-so-classic designs featured interesting recycling of found materials around the Art division dumpsters! (That really is a slingshot, at right)

Many teams developed unique "hot dog containment systems" for this year's trials to overcome the unwieldy geometry and surface characteristics of the "standard competition hot dog" – some of which may lead to rule changes next year!

To win the maximum distance, the trajectory needed to be straight, with sideways distance subtracted from the total: difficult with the loose hot dog, to say the least!

No pictures of the winners were available; somehow the lure of Mud Volleyball drew away our teams before the winners could be announced.



AU Engineering News is a print version of our on-line newsletter, published four times a year. For complete news and updates, go to <http://engineering.alfred.edu/newsletter>

The AU Engineering News is edited by Dr. Anna E. McHale. Questions or comments about our newsletter can be sent to her at soeenews@alfred.edu.

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