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THE NEWSLETTER OF THE FRANKLIN W. OLIN COLLEGE OF ENGINEERING

Olin Receives Accreditation from NEASC

Decision caps four-vear process



The Franklin W. Olin College of Engineering has received accreditation from the New England Association of Schools & Colleges (NEASC). The college received a "Certificate of

Accreditation" from the association on December 7, signaling that it has met the body's standards for membership.

"NEASC accreditation is a major milestone for Olin College," said Olin President Richard K. Miller. "It is recognition from our peer institutions that our academic program is sound and in good standing. This decision is also an implicit acknowledgement of the hard work and diligent efforts the Olin College community has put in to make this a first-rate educational institution."

Word of the accreditation decision caps a process that began in 2002 when the college officially opened and

applied for candidacy status from NEASC. There followed two visits by official NEASC teams under the auspices of the association's Commission on Institutions of Higher Education.

In addition, the college also produced two "self studies" detailing how it was meeting NEASC standards in such areas as curriculum and finances. These efforts culminated in the recent vote by the NEASC board of directors to grant Olin accreditation. Accreditation applies retroactively to Olin's first class, which graduated in May 2006.

The reaction in the Olin community was swift and very positive. Olin parents, who perhaps felt the lack of accreditation most keenly as they sent their talented sons and daughters off to an untested new college, were overjoyed.

"That is awesome," e-mailed Cyndi Markoch of (continued on back cover)



Alumna Mikell Taylor ('06) proudly displays Olin's NEASC Accreditation certificate in her office at Bluefin Robotics.

"NEASC accreditation is a major milestone for Olin College"

— Richard K. Miller

National Media Outlets Recognize Olin's Success

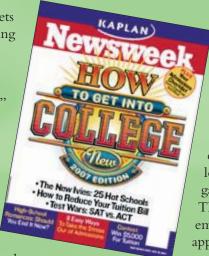
Newsweek Counts Olin Among 25 "New Ivies" and Business Week Names Olin to its List of Best Design Schools

Two highly regarded media outlets recently recognized Olin's growing academic reputation.

In August 2006
Kaplan/Newsweek published its
2007 "How to Get into College"
guide, in which it named Olin
College one of the 25 "New
Ivies." These are schools with
exceptional academic programs
and campus offerings that have
seen a rise in stature to rival the
Ivy League and other traditional academic powerhouses in
competing for the nation's top students.

The "New Ivies" list was created in 2006 to recognize the growing reputation and heightened selectiveness that Olin College and other academically outstanding schools have achieved, in light of growing popularity among top students within a booming college-bound population. This elite group was selected based on admissions statistics as well as interviews with administrators, students, faculty and alumni. Information is provided on each institution focusing on the school's unique appeal and profile.

Just a few short months later, in its October 9th issue, *Business Week* magazine



included Olin College in its first-ever list of the top design programs in the country. The eclectic list includes business schools, engineering schools and traditional design schools. The magazine noted that companies are increasingly looking for design talent to gain competitive advantage. The schools on the list emphasize multidisciplinary approaches, combining engineering, business and social sciences. They team teach, and

organize students into teams as part of the learning process.

"This has been a year of many milestones for Olin," said Olin President Richard Miller. "The increased recognition we've received in the national media is undoubtedly having an impact; the number of applicants has increased significantly this year, as have the number of visitors to campus and business people expressing interest in working with Olin. We are very pleased to have made both of these influential lists as they are inherently reflective of the quality of the Olin education."





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PRESIDENT'S MESSAGE



Sometimes when I write this message, it is hard to decide what accomplishment to highlight first. This time, the choice is easy: the news that Olin has received accreditation from the New England

Association of Schools and Colleges (NEASC) definitely takes the top spot.

This long-sought recognition takes top honors because it has involved so many of us for so long, and has such wide ranging implications for the future. Although we were always confident that our academic program is top-notch, we weren't sure we would be accredited right away. But NEASC saw what we have known for some time: that Olin stands for excellence in engineering education, and has the resources necessary to deliver its unique, scholar-ship-funded learning program into the future. I would like to thank the entire Olin community for its dedication and hard work in reaching this important milestone.

In other news, Olin learned in August of its designation as one of the "New Ivies," 25 schools singled out by *Newsweek* as increasingly popular alternatives to the traditional Ivy League schools. This designation is emblematic of our growing reputation in the educational marketplace. Who would have thought when our first students arrived in 2002 that we would be a "New Ivy" four short years later?

We continue to bask in the glow of our first Commencement last May. Every day we receive new reports our the accomplishment of our first graduating class, who have gone on from Olin to Fulbright Scholarships, top graduate schools like Stanford and MIT, and employment with leading companies like IBM, Google and Boston Scientific. In the short amount of time since graduation, they are beginning to make a critical difference in their new environments.

This is what Olin is all about: recruiting the best students, giving them an outstanding engineering education that teaches them to be leaders, and then sending them out into the world to make a difference. I appreciate your help and support in this endeavor, which is so important for our nation's future.

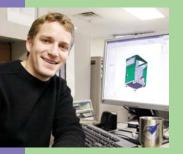
Richard K. Miller,

ALUMNI SHOWCASE

CLASS OF 2006 IS MAKING A DIFFERENCE IN MANY SETTINGS

Many have faith in the old saying "The proof of the pudding is in the eating." It's with that sentiment in mind that many eyes are on Olin's first graduating class. Though they've only been out of school for seven months, it's no surprise to see that they are already doing remarkable things. Innovations features six Olin alumni below and looks forward to sharing more about our graduates in upcoming editions.

Jeff Satwicz, *Needham, Mass.*Jeff is currently a Product Development Engineer at



Seahorse Power Company
– a company that develops,
manufactures and sells
innovative, energy-efficient
products. In this role Jeff is
responsible for a number of
different product development projects. Specifically
he has led successful
efforts to reduce manufacturing costs and improve

product performance at Seahorse, which was recently named a "Green 50" company by *INC* magazine. On what he feels sets his Olin education apart: "I believe that thanks to the self-directed learning and project environment at Olin, graduates are better equipped to do more advanced jobs earlier."

Michael Curtis, *University of Oxford, Oxford, England* Michael is working toward his Ph.D. in Atomic and



Laser Physics. He is spending a great deal of time working with a team on experimental research with devices called ion traps. His team is trying to develop techniques which might one day allow these devices to be used in a fundamentally new mode of computation based on

quantum theory. On lessons he learned at Olin: "The engineering mindset of deconstructing problems into manageable chunks, then integrating the various solutions into a complete system and effectively communicating those results is very well suited for experimental work, which I'm involved in now."

Nick Zola, *Hamburg, Germany*Nick is in the midst of learning German by taking a



number of intensive courses and is helping with a church in Hamburg by conducting a weekly Midweek service and coordinating the transition as his church merges with another. He will soon begin a Master's Degree program in New Testament at Abilene Christian University and

from there plans to pursue a Ph.D. with the goal of becoming a university theology professor. His advice for current Olin students: "College is a time to develop who you will be for the rest of your life. Be sure to think periodically about who you are now and who you are becoming."

Ann Marie Rynning, Air Force Base in Dhaka, Bangladesh

Ann Marie (pictured here with Officer Nazmin) is

working for
Automated
Sciences, a small
company that provides reliable, high
resolution, real-time
data and imagery
through weather
satellite systems,
software, and services. She's in Dhaka



on a training trip. When she's not providing on site support to customers she's living and working in Connecticut.

On her future plans: "In June I will be volunteering with the Peace Corps in Jordan. Since I likely won't be able to play piano, which I love doing, while I'm there I've been taking violin lessons so that I can continue to play an instrument while visiting Jordan."

Dan Lindquist, *San Francisco, Calif.*Dan works as a Software Developer at Yahoo! Sports,

handling backend work for the editorial section of the site. He landed the job after competing in the 2006 Hack Day event, where 500 software hobbyists combined Yahoo's existing Web services with their own



coding skills to create new products. Dan stood out for his idea of building a more intensely visual way of reading e-mail by using images loosely correlated to mail subject lines. This allows people to visually associate thoughts with emails instead of having to read and parse the full subject line. On what he misses most about Olin: "I'd probably say that besides the people, I miss the all-night working sessions that truly tested your character."

Susan Fredholm, Boston, Mass.
Susan is attending Massachusetts Institute of

Technology (MIT).
She is enrolled in the
Technology and
Policy Masters
Degree Program
within the
Engineering Systems
Division, where she
takes a combination
of engineering, law,
economics and poli-



cy classes in addition to pursuing research.
On staying involved with Olin: "I currently serve as an alumni representative and I intend to continue volunteering my time to serve on panels about Olin and participate in various events such as the Open Houses and Candidate's Weekend when possible."

Career Initiatives Day

On October 5th the office of Post Graduate Planning held a very successful Career Initiatives Day event to help students prepare for career and life decisions. The day included more than a dozen workshops on topics such as Networking; International Scholarships and Fellowships; Graduate School in Engineering, Math and Science; Exploring Non-Engineering Careers; Marketing Yourself to Employers; and Choosing an Olin Major. The workshops were complemented by an afternoon Career Fair which was attended by 24 companies including Analog Devices, BBN Technologies, Bluefin Robotics, Bose, Boston Scientific, Case New Holland, CIA, Common Point, DRS Technologies, FitSense, GE Fanuc, HP, IBM, MITRE, Natick Soldier Center, Nortel, Osram Sylvania, Pratt & Whitney, ProActive Community, PTC, RadiSys, Raytheon, SolidWorks, and Zeetoo.

SEMESTER EVENTS

The Complete Works of William Shakespeare (abridged) – Fall FWOP Performance

This fall, the Franklin W. Olin Players (FWOP) presented *The Complete Works of William Shakespeare (abridged)*. The successful production was a fast-action, hilarious comedy in which three actors attempted to perform all 37 of Shakespeare's plays in a single 90 minute sitting.

Family Weekend 2006

This year's Family Weekend, October 13th-15th, was one of Olin's most successful to date. More than 140 families participated and feedback from them has been great. "It's a pleasure to see so many students and families enjoying themselves and is a great reminder of how unique and tight-knit the Olin community is!" said Krissy Raposa, assistant director of Parent & Alumni Relations.

Artwork in Autumn Event

On October 14th, during Family Weekend, the offices of Development, Parent & Alumni Relations, External Relations and the Parent Advisory Board hosted a silent auction of artwork as part of a reception in the Academic Center. The event included students, families participating in Family Weekend, and invitees from the communities of Dedham, Needham, and Wellesley. The inaugural event was a success and the offices involved are planning to host it again next year.

Fall Open House

Olin's annual fall Admission Open House was held on October 29th. The most heavily attended open house to date included nearly 400 participants from more than 20 U.S. states and Canada. Positive energy was quite evident throughout the day and the majority of students who completed the open house survey indicated that the days' events made them want to apply to Olin. Additional feedback indicated that attendees appreciated how kind and easy to talk to the Olin students, staff, and faculty were and that they valued seeing the types of projects students and professors are working on.

Olin Hosts Wellesley's 125th Anniversary Finale Event

The grand finale of Wellesley's 125th anniversary was celebrated at Olin on November 12th. Dubbed "Come Back to Needham" — a reference to Wellesley's 19th-century roots as a part of Needham — the event featured an open brunch, campus tours, and door prizes.

SERV Auction

The Olin College community service organization, SERV (Support, Encourage and Recognize Volunteerism), held its third annual service auction on December 1st. The auction is a completely student organized event, and raised over \$6,800 for the Chernobyl Children's Project and Partners in Health. Nearly 100 community members donated items or service offerings to the auction, which included a week-long silent auction and a live auction with Matt Donahoe ('08) and Kat Kim ('07) serving as auctioneers.



Andrew Price ('09) and Matt Wootton ('09) meet with Kathleen Geist from DRS Technologies.



Scott McClure ('09), Andrew Bouchard ('07), and Benjamin Small ('10) perform The Complete Works of William Shakespeare.



The Mitchell family joins their daughter, Ryan ('10), second from left, for Family Weekend festivities.



The 2006 fall Admission Open House was Olin's biggest to date.

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Analog Devices Chairman and CEO Ray Stata (middle) is welcomed by Rita McNulty (left) and Joanne Kossuth.

Participation is Key Goal of Development Effort

The past months have been busy ones for the Development Office and I would like to thank everyone for their support. A number of new initiatives have been undertaken. These include:

- The Artwork in Autumn event in conjunction with Family Weekend in October
- The hosting of an event to celebrate the Town of Wellesley's 125th birthday which introduced many Wellesley residents to Olin
- The generous support of the Trustees as reflected in a new matching funds program for all parents who contribute at least \$1,000 more than in 2005
- The first solicitation of the alumni (Class of 2006)
- The first regional development event held at the Westin Palo Alto, which included myself, alumni, Trustees, President Miller, parents, and corporate partners; everyone was asked to bring a friend to introduce to Olin
- Recent corporate visits in Los Angeles, San Diego, San Francisco, Chicago, Houston, Phoenix, and the Boston area
- The annual fund campaign including a letter from the Parents Advisory Board requesting 100% parent support for the College
- Creation of a development action plan, in conjunction with the Board of Trustees, for potential major donors

As the strategic planning process takes shape over the next year, we will all be participating in designing the next big ideas for the college. Some early suggestions to date include a center for innovation in engineering education, a bio-engineering degree program, and new ways to enhance and sustain the pace of innovation at Olin. In order to recruit additional external support for our objectives it becomes even more critical for the outside world to understand the core support of the College from within. A critical metric is the participation rate and our goal is 100% participation.

If you have not yet participated in achieving the 100% goal, please consider making a gift to the College. Gifts can be made by cash or check to the Development Office.

Credit card payments can be made on line at https://www.olin.edu/about_olin/online_donation.asp.

If you wish to make another type of donation please contact me at joanne.kossuth@olin.edu.

Thank you so much for all of your support and further consideration. I hope your holidays were joyous ones.

Joanne Kossuth

Associate Vice President, Development Chief Information Officer 781-292-2431 This fall 89 new students (41 women and 48 men) joined the Olin College community. Representing 29 states, this year's freshmen brought with them a wealth of talent and experience as exemplified by the following brief profiles of four Olin first years.

Garrett Rodrigues

MEET OUR STUDENTS - CLASS OF 2010

Hometown: San Carlos, Calif.

High school activities & interests: Traveling and tutoring elementary school students with varied backgrounds. **Passions:** Soccer, guitar, dance and billiards.

On his future plans/goals: "Engineering is a field still entirely unexplored to me, and I'm not sure if I'd like to pursue a career in engineering, law, medicine or something entirely different. I guess that's a pretty great attribute of Olin; there are a ton of opportunities that allow students like me to explore and develop myself so that I can make an educated decision about my future."



Ellen Chisa

Hometown: Bloomfield Hills, Mich.

High school activities & interests: Ellen graduated as Salutatorian of her class having taken eight International Baccalaureate courses simultaneously. She was a member of her school's FIRST robotics team which won the national championship in 2003 and was an active member of the school's orchestra and economics challenge team.

Passions: Ellen is a member of CORe (Olin's student government), and has joined Habitat for Humanity, French Club, Olin Fire Fighting Robotics and several school committees.

On her future plans/goals: "I am still undecided about what I'll do after Olin, but I'm considering graduate school, medical school or going into business." At some point Ellen would like to own a business of her own.



Zack Coburn

Hometown: North Hampton, N.H.

High school activities & interests: Zack captained a champion math team, fought censorship as editor-in-chief of his school paper, and won semifinalist status in the coveted Siemens Westinghouse competition for his paper on the Collatz Problem, an open problem in number theory.

Passions: Entrepreneurship. Since joining Olin, Zack has joined the Olin Entrepreneurial Group and co-founded DormItem.com, a website that allows students to buy and sell items with other college students.

On his future plans/goals: "I would like to found a technology company that will grow to be known globally as a force for innovation, and I plan on solving at least one major open problem in computer science."



Nina Sawhney

Hometown: Torrance, Calif.

High school activities & interests: Nina placed nationally in the 500 freestyle and was named a 2006 Michael Milken Scholar.

Passions: People. Nina loves to meet and get to know all kinds of people; a soccer player and salsa dancer, she is also a member of FIRST and part of the Olin Submersible Unmanned Vehicles Club.

On her future plans/goals: "I'm planning to head to graduate school and from there would like to travel as much as possible to see as much of the world as I can and meet as many new people as I can."

COMMENCEMENT 2007

Walsh Named Commencement Speaker

Upon recommendation of the Commencement Steering Committee and with the approval of the Board of Trustees,



President Richard
Miller invited
Wellesley College
President Diana
Chapman Walsh to
deliver the commencement address to
the 2007 graduates
May 20. In making
the announcement,
President Miller said,
"President Walsh has

been an extended member of the Olin community since the founding of the College. She has been present at nearly every major Olin milestone event, she has been very supportive of the rapidly growing relationship between Wellesley and Olin colleges, and she is an internationally respected leader in higher education, as well as a highly sought after public speaker. We look forward to hearing the advice and wisdom she has to share with our graduates." Last spring, after thirteen years as president of Wellesley College, Dr. Walsh announced her intention to step down from the presidency in June 2007.

NEW APPOINTMENTS

BOARD OF TRUSTEES

Robert N. McBurney, Senior V.P., Research & Development and Chief Scientific Officer at BG Medicine, Inc.

Henry E. Riggs, Founding President Emeritus of Keck Graduate Institute of Applied Life Science, founded in 1997 in Claremont, Calif.

PRESIDENT'S COUNCIL

Atul Bhatnagar, Vice President and General Manager, Enterprise Data Networks, Nortel Networks

James C. Curvey, Director, FMR Corp.

Daniel Hastings, Professor of Aeronautics and Astronautics and Engineering Systems, and Dean for Undergraduate Education at MIT

Dr. Venkatesh Narayanamurti, Dean of Engineering and Applied Sciences, Harvard University

IN BRIEF

Olin, Babson, Wellesley Sponsor Lecture Series on Leadership, Ethics Olin College, Babson College, and Wellesley College teamed up this past fall to

sponsor a public lecture series on leadership and ethics. The speakers offered perspectives based on their research and experience exercising leadership, often in difficult situations fraught with challenging ethical dilemmas. The lecture series is part of a course on professional ethics and leadership development that was team taught in the fall by the presidents of the three institutions. James Ashton, left, spoke on ethics in the Trident Submarine program. For a full list of quest speakers, please visit:

http://www.olin.edu/about_olin/news/pr_single.asp?id=163.



munity by *Mass High Tech*, the journal of New England technology. This is the 11th consecutive year *Mass High Tech* has recognized leaders in New England's innovation economy. The program spotlights the region's most innovative leaders whose achievements are most likely to affect how the community works, lives, or plays today and in the future. President Miller was honored in the Education category for his leadership in higher education and his innovation in undergraduate education, business entrepreneurship, and academic administration

President Miller Receives a Prestigious Mass High Tech All-Star Award

President Richard Miller was named one of 12 "All Stars" of the high tech com-

Olin Professor Named to Committee on Status of Women in Physics

Dr. Yevgeniya Zastavker, assistant professor of physics at Olin, has been named to the American Physical Society's (APS) Committee on the Status of Women in Physics (CSWP). The committee was founded in 1972 to promote the career development of women physicists, and consists of nine volunteer members appointed by the president of the APS. Throughout its more than 30 year history, the CSWP has sponsored a number of studies, programs, and publications exploring career issues affecting women in physics.

Fourth Grade Students Evaluate Olin First Years' Toy Prototypes

On Monday, December 11th, seventy fourth grade students from Hillside Elementary School in Needham, Mass,



visited Olin College to evaluate the toy prototypes of first year students taking the Design Nature class. The idea is to study nature (animals, plants, motions) — an important source of inspiration and understanding — as a theme and develop bioinspired ideas into functional prototypes. The focus is on the general principles and methods that shape the practice of engineering design. The class's final project challenged them to develop bio-inspired toy prototype walkers targeted at 4th graders. In other words, they created toys that walk up walls in a style consistent with the animals that inspired them, including caterpillars, frogs, snakes, seals and many others.

NSSE Study Places Olin Near the Top of Nationwide Results in Effective Educational Practice

According to the seventh annual report published by the National Survey of Student Engagement (NSSE), Olin College's results surpass those of key comparison groups in the study's five key benchmarks of effective educational practice. The study, titled "Engaged Learning: Fostering Success of All Students," provides comparative standards for determining how effectively colleges are contributing to learning. Five key areas of educational performance are measured: Level of Academic Challenge (LAC); Active and Collaborative Learning (ACL); Student-Faculty Interaction (SFI); Enriching Educational Experiences (EEE); and Supportive Campus Environment (SCE). Most notably, in all five categories Olin ranked in the 90th percentile or above. These statistics show that Olin students spend more time preparing for class, engage in coursework emphasizing application of theories or concepts to practical problems, and feel that the campus environment supports the academic and personal success of students.

Olin Students Finalists in International Design Competition

A team of five Olin students [Mel Chua ('07), Andrew Bouchard ('07), Eric Munsing ('08), Gui Cavalcant ('08), and Joe Kendal ('09)] who entered an international design competition they discovered on the Web now find themselves unexpectedly finalists in the competition. As *Innovations* went to press, the team was making plans to travel to Japan to vie against 100 competitors from around the world.

The competition, sponsored by the Japan Design Foundation (JDF), challenged contestants to come up with a design for a commercializable robot that would aid in communication and social networking. The Olin team submitted an idea for a robot, dubbed "Echo," that would sit on a person's shoulder in a public setting such as a subway and communicate with other such robots. The robots, which would be programmed with information about their owners' interests, would wave when they found matching interests. The waving robots would be a signal of compatible interests and lead, ideally, to social interaction.

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INCREASE IN EXTERNALLY SPONSORED RESEARCH FUNDING SEEN AT OLIN

Since the fiscal year began last July, Olin has seen a significant increase in external funding of sponsored projects for research and research-related activities. As of January 1, awards had more than doubled, to nearly \$2.5 million, when compared to the same period last year. The number of successful grants also more than doubled.

Highlights include two sizeable NSF awards for equipment—\$478,845 to support the acquisition of a high-tech microscope and \$208,167 for a sophisticated infrared spectrometer. Another major NSF award—\$354,287—funds a study of engineering-related classroom learning methods and their effects on women. The largest single award—\$1.1 million—was from the Sloan Foundation to support the ongoing work of the Sloan Consortium, an association of online learning providers based at Olin and Babson.

"I am very pleased to see such a large increase in the number and funding of sponsored projects," said Olin College President Richard K. Miller. "It is a welcome sign that the external funding community sees great value in the research and related activities of our faculty."

The chart below summarizes the awards received since July, in chronological order:



(left to right) Professors Rebecca Christianson, Yevgeniya Zastavker, Debbie Chachra, and Alisha Sieminski secured a \$478,845 NSF grant for a confocal microscope

PONSOR	PRINCIPAL INVESTIGATOR	ACTIVITY	AMOUNT
Sloan Foundation	Dr. John Bourne	Renewed funding for Sloan Consortium	\$1,060,000
NSF	Dr. Yevgeniya Zastavker	Acquisition of confocal microscope	\$478,845
Stanford University/NSF	Dr. Ozgur Eris	Using Digital Libraries to enhance engineering education (Stanford/Strathclyde collaboration)	\$34,386
NSF	Dr. Jon Stolk	Acquisition of infrared spectrometer	\$208,167
NSF	Dr. Yevgeniya Zastavker	Study of effects on women of engineering- related classrooms that emphasize project- based learning in comparison to other methods	\$354,287
University of Richmond/NSF	Dr. Sarah Spence Adams	Supports a project to increase interest in mathematical sciences through Long-Term Research Experience (LURE) model	\$209,214
University of Washington/NSF	Dr. Ozgur Eris	Year two funding of a study of undergraduate engineering students to explore how people become engineers	\$49,505
Babson/NSF	Dr. John Bourne	Educating engineering faculty about entrepreneurship	\$51,849
NCIIA/Lemelson Foundation	Dr. Mark Somerville	Supports work on an automated TB tester	\$17,250
TOTAL July 1, 2006 through December 31,	2006		\$2,463,503

SCOPE PROGRAM

This year's SCOPE program (Senior Consulting Program for Engineering) features a total of fifteen projects ranging from Alzheimer's research to finding energy sources for oil exploration instrumentation. Sponsors of the program include four returning companies, several Fortune 500 companies, a couple of smaller enterprises and one project sponsored by the college itself. SCOPE consists of a major year-long project which Olin seniors, working in teams, undertake for a corporate or other "real-world" sponsor. Following is a brief synopsis of each project; additional information can be found on the SCOPE website: http://www.olin.edu/scope/.



Olin Members of the MIT-DARPA team – (left to right) Jeffrey Glickman, Zachary Brock, Alexander Epstein, Michael Siripong, Katy Moyer, and Keoni Mahelona



Pratt & Whitney team — (left to right) Matthew Tesch Sara Marshall, Alexandra Wheeler, Christopher Doyle, and Rob Nix



Team ROCONA — (left to right) Kevin Sihlanick, Madge Dodson, Lauren Hafford, Daniel Lin, Simo Helmore, and Andrew Bouchard with their autonomous tractor



Three members of the Boeing team – Kori Haymore, Alison Schmidt, and Char Laughlin

Boeing: The team will conceptualize, define, and validate new and novel light weight passenger support and retention systems (seats) for commercial jet aircraft.

Boston Scientific (two projects): Both projects are on the leading edge of medical device technology. One team is developing a surgical instrument that can be used in many types of endoscopic procedures, while the other team is continuing a project from spring 2006 that aims to improve a device used to treat gastrointestinal diseases by addressing a known usability issue.

DEKA: This confidential project investigates wireless motion controllers using a rugged serial bus designed for industrial environments (CANbus).

F.W. Olin Alzheimer's Project: The goal of this project is to design and build a device that could help people with early-stage Alzheimer's stay connected with their families and remain independent.

Hewlett-Packard: The team is working to develop proposals for new business areas for HP utilizing their market-leading inkjet printer technology.

IBM: The team will work to provide a next-generation retail store solution through the development of a cart-based store imaging system. This platform will help determine product restocking schedules as well as report on the shopping experience for store owners and product vendors.

Lexmark: The Lexmark team will design and prototype novel applications for their multifunction printers, improving user-interaction and identifying novel applications that address the needs of users.

MIT- DARPA: MIT and Olin College have formed a team to enter the next DARPA Grand Challenge, a competition that features fully autonomous ground vehicles conducting simulated military supply missions safely and effectively in a mock urban area. The team submitted a proposal to DARPA and won a fully funded grant to enter the annual autonomous vehicle competition.

Nortel Roots II: A continuation of the 2005-2006 Nortel ROOTS project, the Nortel ROOTS II team will use the design ideas produced last year to develop a technological solution to problems faced by network managers and information technology specialists.

Nortel SALSA: The team is working to leverage sensor technology, Olin's network infrastructure, and some of Nortel's research software platforms in order to create innovative applications of potential benefit to the Olin community.

Pratt & Whitney: The principle goal for this modularized probe project is to design and demonstrate a temperature / pressure probe that is wirelessly connected to a data acquisition system to test iet engines.

ProActive Community: The team is working to design and prototype a facility that addresses the need in the small events marketplace (125 persons or less) for flexible, adaptable, high impact presentation venues for corporate, private, and public events.

ROCONA: The team is working in conjunction with a large California-based agribusiness to develop support technologies that would improve the efficiencies of agriculture. This project is a continuation of last year's successful Vision Agribotics project.

Schlumberger: The team is tasked with developing energy-harvesting technologies to collect energy from various sources to provide power locally to oil exploration instrumentation.

SCOPE TEAM



F.W. Olin Alzheimer's Team – (left to right) Susan Tse, Daniel Gallagher, Kristen Dorsey, Catherine Murphie, Laura Stupin, and Alison Lee

Spotlight: Olin Alzheimer's Team

The F.W. Olin SCOPE Team is diligently working on a project to create a device that will allow a person with Alzheimer's disease to live independently for a longer period of time. Five Olin seniors, Alison Lee, Kristen Dorsey, Catherine Murphie, Daniel Gallagher, Laura Stupin, as well as Wellesley senior Susan Tse are working on this year-long engineering project. The goal of this project is to improve quality of life by developing a device that will allow patients to live longer in their homes and remain more independent. From September to December 2006, this team of six students worked to understand the needs of Alzheimer's patients and their care givers. After initial research and user interviews, they developed a series of product ideas that would employ technology to assist early-stage Alzheimer's patients in their daily lives, such as a locating device, Alzheimer's-friendly telephone and a mental engagement device. Several design values helped guide the evolving ideas, and extensive technology research and experimentation was conducted to select a single idea to carry

The selected device, Mind Scout, is a tool which can offer reminders and answer common questions. Mind Scout will accompany the patient around the house throughout the day. A flexible interface, both visual and auditory, will combine with intuitive software to make the device as userfriendly as possible for both the person using the device and for the care giver. The care giver can easily program the device to answer specific questions as well as to acknowledge daily activities that the person would do.

From January to April 2007, the F.W. Olin SCOPE team will be refining the software and hardware technologies in Mind Scout so that the team can produce a rough prototype that demonstrates the intended interface and functionality. The members will continue to gain feedback from users in order to design the device's interface and form. The client and users look forward to viewing the prototype of a device that may one day relieve some of the daily challenges experienced by families living with Alzheimer's.

- Alison Lee, class of 2007

For more information, visit: www.olin.edu/scope

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Franklin W. Olin College of Engineering

OLIN RECEIVES ACCREDITATION

continued from page 1

Gainesville, Fla., mother of Chris Carrick '08, upon receiving the news. "I am so proud and feel so very blessed to have my son go to such an excellent school."

Members of Olin's pioneering Class of 2006, who took a chance with their futures by enrolling in the unaccredited Olin, began printing out the accreditation certificate and posting it on their cubicle walls and home refrigerators. "This is great news! Congratulations!" said alumnus Tom Cecil, who is studying law at the University of

NEASC accreditation applies to the institution as a whole. Olin is also seeking accreditation for its three degree programs from ABET, the accrediting body for engineering programs. A decision on ABET accreditation is not expected until next summer.

Founded in 1885, NEASC is the nation's oldest regional accrediting association. Focusing on New England institutions, NEASC has as its mission the establishment and maintenance of high standards for all levels of education.

FEBRUARY JOB AND INTERNSHIP FAIR

On February 21, 22 and 27 from 11:00 am to 2:00 pm Olin College will host a Job and Internship Fair where organizations will have the opportunity to meet with Olin students to discuss opportunities for full-time jobs and summer internships. The College welcomes hiring managers, engineers, and HR recruiters to attend. Space is limited to 10 companies per day. We still have space for a limited number of additional participants. To inquire about open slots, please contact Lisa Frusztajer at 781-292-2283 or lisa.frusztajer@olin.edu.

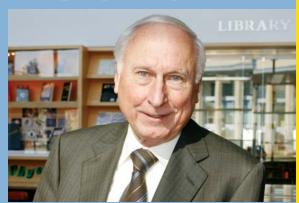


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PRESIDENTIAL LECTURE SERIES ON LEADERSHIP AND PHILANTHROPY FEATURES RAY STATA



Ray Stata of Analog Device

Ray Stata, Chairman and CEO of Analog Devices since 1973 and a leader in the high tech industry, spoke at Olin College on November 1st. In a wide-ranging talk in the Olin Center auditorium, Stata outlined his people-centered business philosophy and pointed to Olin as a model for the kind of innovative thinking needed in the emerging business environment.

Stata described how his company, a maker of analog and digital signal processing equipment, evolved since its founding in the mid-1960s, noting the shift to integrated circuits in the early 1970s and the move into consumer markets in the 1980s and 1990s. Stata said the high tech industry as a whole is approaching a key "inflection point," as customer needs become much more complex. "Customers want more highly integrated solutions," said Stata. "You need to know much more about customer needs." Among the factors driving change today are relentless price pressure, soaring design costs and shorter product life cycles. "The challenge now is that we must be good at a lot of things."

He expressed the hope that colleges like Olin might help provide the leaders and innovators for the new business environment. "The question on the minds of people is what can engineering schools do to better embed entrepreneurial thinking into the souls of graduates," said Stata. "They're looking to Olin to point the wav."

UPCOMING ACTIVITIES AND EVENTS

February 21-22, 2007 Job and Internship Fair

February 23-24, 2007 Candidate Weekend I

February 27, 2007 Job and Internship Fair

March 2-3, 2007 Candidate Weekend II

April 4, 2007 **Big Conversations**

May 3, 2007 Last Day of Instruction

May 14, 2007 Olin Exposition

May 15, 2007 **SCOPE Presentations**

May 20, 2007 Commencement for Class of 2007

Innovations

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