-MOMENTUM

A Newsletter of the Clare Boothe Luce Program

inaugural edition, June 1st, 2014





University of Colorado CBL Assistant Professor of Physics Cindy Regal, recently selected for a Presidential Early Career Award for Scientists and Engineers.

Clare Boothe Luce Selection Committee

Midge Decter, chair Writer and Critic

John C. Bravman President Bucknell University

Edwin J. Feulner Founder The Heritage Foundation

Cynthia M. Friend T. W. Richards Professor of Chemistry Professor of Materials Science Associate Director, Harvard MRSEC

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Courtesy of the Clare Boothe Luce Archives

Table of Contents

Surface Chemistry4
The search for a substance that will absorb CO ₂
Interdisciplinary Entrepreneurship6 Workshops model collaborative innovation
Paying it Forward8
Georgia Tech students spread interest in the sciences
Less Geek, More Chic9 Growing interest in computer science
Original Work at Smith College11 From protein modeling to digital museums
From Awestruck Kid to Rover Team12 Visiting scholars inspire undergraduates
Topographical Abraham Lincoln13 A student's award-winning presentation
Model Change14 Diversity from the top down at Villanova
STEM in Seoul

About the Clare Boothe Luce Program

Since its first grants in 1989 the Clare Boothe Luce Program (CBL) has become the single most significant source of private support for women in science, mathematics and engineering in the U.S. Clare Boothe Luce, the widow of Henry R. Luce, was a playwright, journalist, U.S. Ambassador to Italy, and the first woman elected to Congress from Connecticut. In her bequest establishing this program, she sought "to encourage women to enter, study, graduate, and teach" in science, mathematics and engineering. Thus far, the program has supported more than 1900 women.

Clare Boothe Luce Program Director's Corner June 2014 CBL Momentum! Newsletter

Welcome!

Welcome to the inaugural edition of the Clare Boothe Luce Program newsletter, *Momentum*! We are very excited about this new forum to get the word out about the outstanding accomplishments of Clare Boothe Luce participants, while connecting the CBL community in a way it has never before connected. We'd like to thank everyone who took time at the end of the semester to submit articles and photos. A very special thank you to the Luce Foundation's Eleanor Burgess for her vision on the newsletter. Congratulations to all of the Clare Boothe Luce undergraduate students, Graduate Fellows, and Professors featured in the very first edition of Momentum! Please join us in celebrating their outstanding activities and accomplishments! Also, keep an eye out in this edition for news of gatherings, conferences and opportunities that may be of interest to members of the CBL community.

Carlotta M. Arthur, Program Director

Meet the newsletter team!



From left: Bridget, Carlotta, and Eleanor

Carlotta M. Arthur - Director, Clare Boothe Luce Program

Carlotta earned a B.S. in Metallurgical Engineering from Purdue University, and worked for ten years in industry before completing an M.A. and Ph.D. in Clinical Psychology at the State University of New York at Stony Brook, and a W.K. Kellogg post-doctoral fellowship at the Harvard School of Public Health. Carlotta also taught at Meharry Medical College in Nashville and later at Smith College. Prior to joining the Foundation, she served on the staff of the Andrew W. Mellon Foundation. In her free time, Carlotta enjoys digital photography, jewelry making, and travel.

Bridget Talone - Clare Boothe Luce Program Assistant

A graduate of Sarah Lawrence College, Bridget worked in arts administration and event planning for the Geraldine R. Dodge Poetry Festival and Program before pursuing her M.F.A. at the lowa Writers Workshop. While at lowa, Bridget was awarded an lowa Arts Fellowship, The John Logan Poetry Prize and The Donald Justice Award for Poetic Excellence. After graduation, Bridget taught writing at Rosemont College and held an editorial position with the independent poetry press Saturnalia Books. She joined the Foundation in 2013. When she's not at work, Bridget is either immersed in New York's vibrant literary scene or looking for a quiet place to write.

Eleanor Burgess - Web Editor/Newsletter Designer

Eleanor earned a B.A. in History from Yale University, and has taught English, Global History, and Creative Writing at Brookline High School, Hopkins School, and the American School in London. Eleanor is a playwriting fellow at the Huntington Theatre in Boston, and her play Mocha debuted in Austin, TX in 2013. When she is not writing or editing, Eleanor is generally reading, especially history books.



"It would be fantastic

to design a material

that could not only

also convert it into

store CO₂, but could

enz's research involves nanoporous hybrid frameworks - solid materials that have very tiny pores within their structure, sort of like a sponge but with holes on the nanoscale. "Because of the high surface area that results, these materials

have high potential for gas storage," she explains. "Analogous to how a sponge can soak up lots of water, nanoporous materials can store more gas than a typical pressurized gas tank."

Hybrid nanoporous frameworks have recently gained attention "due to their unique structure and excellent ability to store carparticular," she says.

something useful." bon dioxide, a greenhouse gas, in

Currently she and her students are focused on preparing and examining the properties of thin films

made from these nanoporous materials. "We can measure the absorption of CO2 by these thin films and study the fundamental interactions between the films and various energy-relevant gases," Benz says. The research is going well and two of her stu-

> dents, Andrew Cerro and Amber Mosier, presented a poster on their work at the national American Chemical Society meeting in Dallas, Texas this spring. Their work will also be submitted for publication to the Journal of Physical Chemistry.

> "It would be fantastic to design a material that could not only store CO2 but could also convert it to

into something useful," she adds. "This is something we are very excited about that we plan to investigate in the near future."

Benz, who earned her Ph.D. at the University of California, Santa Barbara and did postdoctoral work at Harvard University, says she is "incredibly grateful" for the support she's received from the mentors in her department, USD and the Clare Boothe Luce program that helped her establish her professorship and a successful research program with her students.

The support from the Clare Boothe Luce program also helped her attract additional funding, including a \$450,000 Faculty Early Career Development grant from the National Science Foundation that will allow her to hire two students each summer for the next five years.

Benz joined the University of San Diego's College of Arts and Sciences in 2009 as the Clare Boothe Luce Assistant Professor of Chemistry and says the five-year award of \$600,000 has been a springboard to her career.

"These kinds of experiences are incredibly helpful as students get a chance to apply general concepts they learn in class and take it a step further," she says. "They develop strong critical thinking skills since very often they encounter challenging, unex-

pected problems they must solve before taking the next step."

The support from the Clare Boothe Luce program also helped her attract additional funding including a \$450,000 Faculty



CBL Professor Lauren Benz

Early Career Development grant from the National Science Foundation that will allow her to hire two students each summer for the next five years.

Earlier this year, Benz was also recognized as one of ten outstanding women scientists across all areas of chemistry and chemical engineering with a Rising Star Award from the American Chemical Society's Women Chemist Committee.

Noelle Norton, Ph.D., dean of USD's College of Arts and Sciences, says the college is very pleased with Benz's excellence in both teaching and research. "USD wants to show strong support for female faculty in STEM fields in the hope of developing other 'rising stars' like Professor Benz," Norton says. "Next year, the university plans to hire between five and seven women to teach in STEM fields in the hope that we can continue to contribute to a cadre of women scientists nationwide."

2014 Designated Institution Meeting SAVE THE DATE!

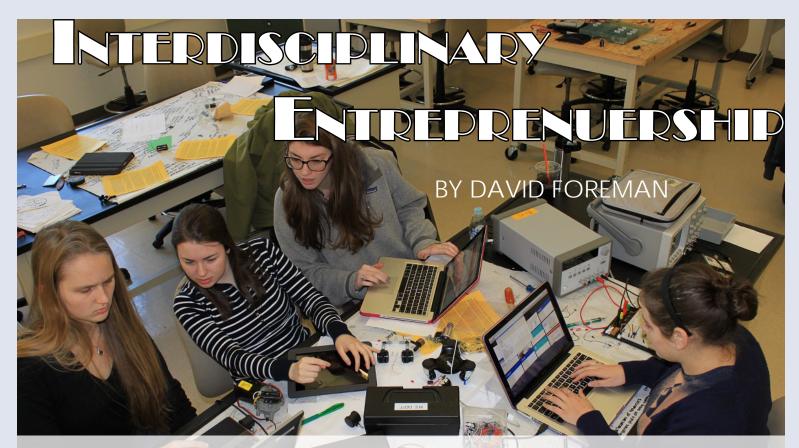
Yes, it's time once again for a gathering of Designated Institution representatives! We have issued a "Save the Date" request to all Designated Institutions - more information about programming for the meeting will follow in the next few weeks, so please stay tuned!

WHAT: The 2014 Designated Institution Meeting!

WHO'S INVITED: All CBL "Designated" Institution representatives (Note: if your school applied and was awarded a grant, you are not a Designated Institution)

WHEN: The afternoon of Monday, October 20th and continuing on Tuesday, October 21st, 2014

WHERE: The Henry Luce Foundation, 51 Madison Avenue, Floor 30, New York, NY 10010



K-WIDE Engages Clare Boothe Luce Scholars as Students and as Teaching Assistants

In January 2014, Bucknell University professors Charles Kim, mechanical engineering, and Joe Tranquillo, biomedical and electrical engineering,

led the KEEN Winter Interdisciplinary Design Experience, or K-WIDE.

K-WIDE is an ambitious and intensive 10-day engineering design experience. Kim and Tranquillo selected 17 sophomore undergraduate engineering students (nine women and eight men) to take time out of their winter break before the start of the spring semester to participate. Students

worked together in interdisciplinary teams to tackle challenges associated with a single topic posing many problems for society: human weight. They started with high-level concepts about obesity, consumption, and sustainability and finished with a working prototype in just over one week. Two Clare Boothe Luce Scholars, Julie Uptegraff '14 and Kelsey Klopfer '14, served as student fellows for the program, helping Kim and Tranquillo to

manage student teams, answer questions, and challenge students as they contemplated solutions for solving this important problem.

In K-WIDE, students face experiences that are almost completely unfamiliar to them. The most prominent of these is failure. K-WIDE challenges them to reflect on what led to failure and how they can move forward from it.

Uptegraff and Klopfer previously participated in the first offering of K-WIDE in January 2012, where they dedicated themselves to coming up with solutions to another significant challenge — restoring and improving

urban infrastructure. Their experience as former K-WIDE participants helped them to guide their peers through the many difficulties that arise from identifying a problem, designing a solution, and creating a working prototype in such a short period of time.

Fellow Clare Boothe Luce Scholar Laura Poss '16 benefited from Uptegraff's and Klopfer's support as a participant in the 2014 K-WIDE program.

In K-WIDE, students face experiences that are almost completely unfamiliar to them. The most prominent of these is failure. Students experience failure in a visceral way. K-WIDE challenges them to reflect on what led to failure and how they can move forward from it.

At the same time, students must also work as a member of a team, sharing responsibilities and working together toward a common solution. To complete their project students must propose solutions, identify a market, and create a working device — all while considering the economic, social, environmental, and ethical impact of their decisions.

At the end of the K-WIDE experience, participants pitched their prototypes to fellow students, faculty members, staff, and university leadership. Solutions included a pedal-powered massage chair, an alarm clock that would only turn off when a person did a set of exercises, and an indoor vegetable-growing system.

The College of Engineering at Bucknell received a



CBL scholar Julie Uptegraff, above, acted as a teaching assistant throughout the K-WIDE workshop.

\$400,000 Clare Boothe Luce Program grant in 2008 to provide scholarships to outstanding women in the College of Engineering. More than 30 percent of Bucknell students in the College of Engineering are women, above the national average.

The K-WIDE program is funded by a grant from The Kern Family Foundation. Bucknell is a member of the Kern Entrepreneurship Education Network (KEEN), a collaboration of U.S. universities that strive to instill an entrepreneurial mindset in undergraduate engineering and technology students.



CBL scholar Kelly Klopfer, center, leads other students in a product pitch.

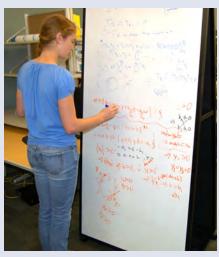
Graduate Student Fellows at Georgia Tech Pay It Forward, Mentoring Budding Female Scientists

Clare Boothe Luce Fellows Alexandra Long and Sarah Cannon are thriving as they complete the first year of their Ph.D. programs at the Georgia Institute of Technology.

Long, studying in the Daniel Guggenheim School of Aerospace Engineering, is working in the Space Systems Design Laboratory. Recently she has completed a trade study for her design of a device which will enable the upper stages of rockets used to send satellites into orbit to fall down to Earth faster, thereby reducing the risk of satellite collisions with space debris.

Cannon is pursuing her Ph.D. in computer science through an interdisciplinary program — Algorithms, Combinatorics, and Optimization — that draws upon computer science, mathematics, and systems engineering. Her research focuses on how long it takes for certain discrete systems to become sufficiently random, and has applications in random sampling in fields such as physics and chemistry.

After an intensive year of study, the two are preparing to delve deeper into their research. Long and Cannon are grateful



Sarah Cannon, Computer Science

for the opportunities afforded to them as a result of the Clare Boothe Luce Fellowship, and they are appreciative of, according to Long, "the doors that have been opened to them" through the fellowship. Long has applied the funds from her fellowship to attend

conferences she would not otherwise have been able to attend, while Cannon has enjoyed the flexibility the fellowship has allowed her to take time in choosing a faculty advisor.

The two have made it a priority to give back to the Georgia Tech community and the greater Atlanta community. Long said, "I've been more conscious about doing outreach than I would have been otherwise." She is participating in the Society of Women Engineers (SWE) mentoring program at Georgia Tech, and is mentoring a second-year female un-

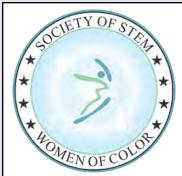
dergraduate student. For Cannon, the fellowship has given her "motivation to get out there," and she has been active in Little SWE, where she participates in after-school engineering educational programs for middle school students. Receiving



Alexandra Long, at the Daniel Guggenheim School of Aerospace Engineering

an award for her involvement, Cannon has taught the middle school students to build roller coasters and miniature rockets, helping to encourage and nurture the participants' interests in engineering.

Cannon and Long will likely draw upon the lessons they learn inside and outside the classroom to inform their own professional journeys. Both envision a future in academia, while Long plans to work in a research laboratory before returning to teach. As Cannon and Long advance in the pursuit of their Ph.D.s at Georgia Tech, they are paying it forward and inspiring the next generation of female engineers and computer scientists.



Society of STEM Women of Color Grant

The Luce Foundation has provided funding to the Society of STEM Women of Color (SSWOC).

SSWOC is holding its annual Women of Color Conclave in June in the Washington, DC area. Visit the SSWOC website for more information: http://www.sswoc.net/



Mt. Holyoke has 50 students majoring in computer science - double the number it had three years ago, and over three times the average number of women CS majors at schools of a comparable size. This is in large part thanks to the efforts of CBL professor Audrey St. John, who is dedicated to making the field as enjoyable as it is rigorous.

St. John is a summa cum laude graduate of Wellesley College and holds a Ph.D. in computer science from UMass Amherst. She received a prestigious NSF CAREER award in 2013 for "A Rigidity Theory for Multi-Robot Formations." Since 2011, when she was named a Clare Boothe Luce Assistant Professor of Computer Science at Mount Holyoke College, St. John has been on a mission to increase the number of women in technology.

The key to St. John's success in attracting women to computer science is her drive to empower and inspire students both inside and outside of the classroom. One recent curricular initiative is her first-year seminar, iDesign Studio, where students (with no prior experience in a STEM discipline) learned the

tools and background to create prototypes of products from scratch. A surprisingly minimal amount of technological comfort led to the design of such projects as slippers that alert the wearer to obstacles and an interactive children's book. In developing this class, St. John enlisted her two CBL summer research students to investigate online tutorials, create course materials, and research hardware options. In the fall, they served as teaching assistants and mentors for the course. For students who may be reticent to dive into computer science by taking a class, St. John has established co-curricular programs to entice them. Her student-developed IHart (Interactive Hallways for attraction and retention to technology) project which seeks to dispel the idea that computer science is isolating and "takes place in the basement" - has resulted in innovations like a playable piano post-

NerdScholar has just included St. John on this year's list of "40 under 40: Professors who inspire"

er, complete with audio, and highlights the impact of peer role models. She is advisor to the annual Game-Jam, bringing together

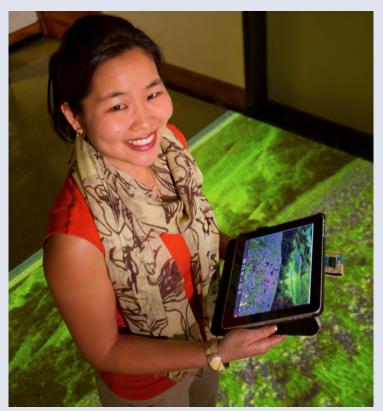
participants from the Five Colleges (Mount Holyoke, Amherst, Hampshire, and Smith colleges and UMass Amherst) with a local video game developer to produce original games in 24 hours. A similar MakerJam encourages students from across disciplines to unleash their entrepreneurial spirits and experience elements from the iDesign Studio course first-hand: progression from idea to design to development of a working prototype in a collaborative and exciting environment.

St. John is inspired by the national cohort of CBL professors who, like her, are committed to supporting and serving as role models for women in STEM fields. Having CBL colleagues on the Mount Holyoke campus has led to interdisciplinary research projects. St. John recently co-authored a paper on computational biology with fellow CBL professor Kathryn McMenimen (Biology)², as well as two Mount Holyoke alumnae and Amherst College professor Sheila Jaswal (Chemistry). The paper, "Computational Prediction of Hinge Axes in Proteins," will appear in a special issue of BMC Bioinformatics.

As a newly tenured professor, Audrey St. John is now completing her term as a CBL professor. The support of the CBL Program for her teaching and research has helped launch her successful career as a leader, mentor, innovator, and role model for women who discover, often unexpectedly, that they are interested – even captivated – by computer science.

Jane Chu Prey, Yan Timanovsky, Jodi L. Tims, and Stuart Zweben. 2013. ACM NDC study: a new annual study of non-doctoral-granting departments in computing. ACM Inroads 4, 3 (September 2013), 4-14.

Mount Holyoke is a CBL "Designated" Institution



Audrey Lee-St. John's research is motivated by computational challenges arising in robotics, biology, and Computer Aided Design.

Society of Women Engineers Leadership Program Grant

The Luce Foundation has provided funding to the Society of Women Engineers to convene an Academic Leadership for Women in Engineering (ALWE) workshop at the upcoming fall 2014 SWE conference in Los Angeles. Details to follow we'll be in touch later this summer with more information!



Undergraduate Students Share Original Projects

Smith College's two Clare Boothe Luce scholars are Emily Flynn and Gavriella Levy-Haskell. Emily, a double major in computer science and biochemistry, has been hard at work this year on her senior honors thesis. Her research is in comparing and visualizing protein rigid cluster

Emily Flynn

decompositions. Computational methods must be used to model flexibility in proteins because it is difficult to measure flexibility experimentally. Part of Emily's work was to develop a 3-dimensional visualization of a process that analyzes rigidity. After graduation Emily is entering the Stanford Ph.D. program

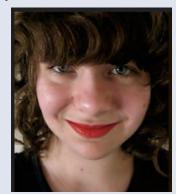
in Biomedical Informatics, and has been awarded a graduate fellowship from the National Science Foundation for her studies.

Both Emily and Gavriella have served the computer science department at Smith as student liaisons to the faculty, and as master teaching assistants for the department. Their mission is to help students from any computer science 100- or 200-level class.

They act as mentors as well during these oneto-one sessions. These roles continue when both speak at the department's twice-yearly general meeting with all minors, majors and prospective CS students: the presentation of the major.

Gavriella is a double computer science and art history major and is interested in the digital humanities. Through her association with the Five College Digital Humanities Project, she designed and created a digital museum app. The project consists of an editor to allow museums and other small institutions to easily create their own iPhone audio tour apps that use assisted GPS to narrow the objects or artworks offered to those in the general vicinity. She presented the project at Re:Humanities,

an undergraduate digital humanities conference held by Haverford, Bryn Mawr, and Swarthmore Colleges; at a NERCOMP: Emerging Digital Scholars workshop; and at the Five College Digital Humanities Student Symposium (Five Colleges in the area including Smith College).



Gavriella Levy-Haskall



From Awestruck Seven Year Old To Awestruck Rover Team Member:

CBL Undergraduate Researchers Inspired by Visiting Scholar

r. Nina Lanza, a planetary geologist at the Los Alamos National Laboratory (LANL), was the invited guest speaker at the second annual Seattle University Clare Boothe Luce Un-

dergraduate Research Program Distinguished Women in STEM Careers seminar, sponsored by the Boeing Company. On April 8th, Dr. Lanza delivered a talk entitled "From Boston to Mars: Turning Passion into a Career" to a group composed of Seattle University students, faculty, and staff, as well as high school girls from the Middle College High School. She described how her obsession with space began when she saw Halley's comet through a telescope at age seven. Since that pivotal moment,

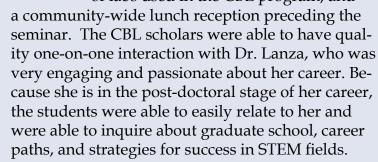
it has been her life goal to work on a planetary mission. She is currently living her dream of working with a spaceship operating lasers on Mars as part of the ChemCam team on the Curiosity rover project.

Dr. Lanza described how her path to achieving that goal was far from direct, and her journey from "an awestruck seven year old to awestruck rover team member" was particularly inspiring to students in the audience. Her enthusiasm for Mars and its rocks was evident throughout her presentation, which captivated the audience with its mix of humor, technical nuggets, and descriptions of life at LANL. Following the seminar, a panel composed of two of the Clare Boothe Luce Scholars (Suzi Bred-

burg and Sophie Dankel) and two science and engineering faculty members (Joanne Hughes Clark in Physics and Teodora Shuman in Mechanical Engineering) shared how their own passions led them to

choose their major or careers. The panel also addressed personal challenges that they encountered in classrooms or jobs where women were a distinct minority.

The CBL Scholars at Seattle University were charged with recommending this year's seminar speaker. Dr. Lanza was their top choice. Nina's visit to SU included a dinner with the CBL Scholars, a breakfast meet-and-greet with College faculty, research overviews and tours of labs used in the CBL program, and



Dr. Lanza is not the only inspiring figure on campus. Jean Jacoby, Seattle University's Associate Dean in the College of Science and Engineering, is a former Clare Boothe Luce professor, and a fellow pioneer.



Dr. Lanza

New Clare Boothe Luce Program Brochures - now available!

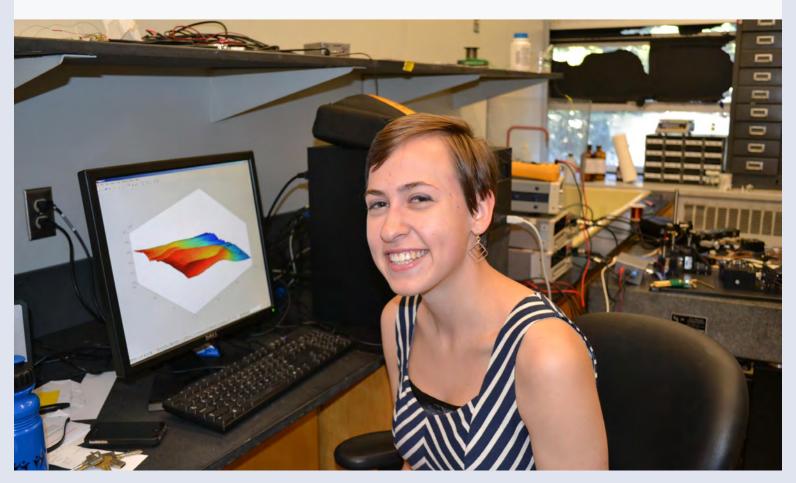
The Recipient Brochure highlights the benefits of CBL awards and may be useful in your recruitment efforts.

The *Institutional Brochure* highlights the program guidelines and the application process for the invited schools competition. It also provides a nice program overview and may be useful for informing your campus community about CBL.



The brochures are available online at the CBL program website. Please feel free to add a link to the online brochures to your institution's CBL program webpage. Enjoy!

CBL Student Receives Award from the American Physics Society



Clare Boothe Luce Scholar, Marie Pahlmeyer from Seattle University, has recently won a Best Undergraduate Presentation Award at the 2014 American Physics Society (APS) March Meeting, which took place in Denver, Colorado. Her talk was based on a summer research project on scanning capacitance microscopy conducted in collaboration with a SU physics faculty member, Dr. Woo-Joong "Andy" Kim.

With support from the Clare Boothe Luce program, Pahlmeyer has successfully developed a versatile capacitance microscope that has numerous applications in high-sensitivity measurements. As an application of the scanning capacitance microscopy technique developed in the past summer, a topographical image of the head of Abraham Lincoln on a US penny has been obtained, with spatial resolution of $50~\mu m$.

Pahlmeyer has been recently selected as a research intern at Physio-Control (one of the premier medical device manufacturers in the northwest) and is looking forward to gaining research experience in medical technology in the upcoming summer.



A topographical image of the head on a penny



Gary A. Gabriele, Ph.D., Drosdick Endowed Dean, has made it a top priority to increase the number of female students and faculty in the College of Engineering. Under Dean Gabriele's leadership, the College has raised female undergraduate enrollment to almost 30 percent, while also retaining female students at the same rate as men. Increasing the number of women faculty has been a key ingredient in that success. As Dean Gabriele explains, "To be able to attract more women to engineering first requires that we have women faculty to mentor and demonstrate to young women that engineering is a valid career path for them to consider."

In fact, women have made up 50 percent of the College's new faculty hires over the past five years, thanks, in large part to a transformational award from the Clare Boothe Luce Program. In 2012, Villanova received \$500,000 in support of three Clare Boothe Luce professorships, the first time the Program awarded three CBL professorships to the same university in one year. All three women bring important areas of expertise to the College of Engi-

neering. Seri Park, Ph.D., CBL Assistant Professor of Civil and Environmental Engineering, is a recognized expert on the use of Intelligent Transportation Systems that promote congestion mitigation and increase mobility and safety. Nisha Kondrath,

Ph.D., CBL Assistant Professor, Electrical Engineering (above), specializes in the fields of hardware and architecture and industrial engineering. Verica Radisavlje-



Professor Seri Park (right) consults with a fellow professor

vic-Gajic, Ph.D., CBL Assistant Professor, Mechanical Engineering, is a member of the Center for Nonlinear Dynamics & Control at Villanova University, one of the highest concentrations of controls-oriented faculty in the region.



Professor Radisavljevic-Gajic advises a student

As Dean Gabriele points out, "Engineering has been and continues to be a male dominated profession. However, the important problems that need to be solved are complex and will benefit from divergent thinking and approaches that can best be supported by increasing diversity within the profession. Villanova is grateful to the Clare Boothe Luce Program for recognizing its College of Engineering's dedication to providing successful role models and mentors to the next generation of women engineers.

Ewha Womans University: program for women in STEM

The Luce Foundation has awarded a 75th Anniversary Initiative grant award of \$1.5 million to Ewha Womans University, in Seoul, South Korea, to support Expanding Horizons, a summer program for women in STEM (Science, Technology, Engineering and Mathematics) which will take place on the Ewha campus in 2015, 2016 and 2017. Founded in 1886, Ewha is the world's largest comprehensive university for women. Like the Luce Foundation, Ewha Womans University has a longstanding interest in supporting women in STEM disciplines.



The Ewha Campus

Expanding Horizons will be an 18-day experience on the Ewha campus, including ten days of seminar and lecture activity in STEM fields, tours of STEM research and industrial facilities, and visits to Korean historical sites and cultural attractions. It is particularly designed to allow ample time for peer interaction and for one-on-one meetings between students and faculty members. The program will serve 20-24 women each summer, half of them Ewha participants, and half of them Clare Boothe Luce graduate fellows.



Students on the campus's main thoroughfare

Eligible CBL Graduate Fellows will be contacted by Ewha University when the recruitment process begins – so mark your calendars and stay tuned!



As many of you know, we are celebrating 25 years of the Clare Boothe Luce Program! As part of our celebration, we will be convening a special program in 2015. Details will follow later – we'll have more information as planning progresses!

"Courage is the ladder on which all the other virtues mount." - Clare Boothe Luce

