Summer 2005

Integrated Science Program Newsletter

Director's letter

I am writing to you on the eve of NU graduation night. Evanston is full of graduates in caps and gowns as well as proud parents and families this afternoon. Tomorrow, we will say good bye to eleven new ISP graduates who will soon embark on very different career paths. This class is small in numbers but big in accomplishments, as you will see in their brief biographies inside this newsletter. The overall quality of the honors theses this year, both submitted to ISP and to our sister departments, was the highest that I have seen in the nine years that I have been reading them. All eleven graduates have carried out independent research and many have published or will soon be published authors. We wish them all the best.

Having the ISP house back this year after the long second-phase renovation was quite wonderful for the general morale in the program. Students use the house daily to study, to work on homework sets, and just to meet their classmates. Consequently, EC04 is one of the most cohesive groups of students that we have had to date. Generous donations from ISP parents have allowed us to make the house a home-away-from-home for students with couches on each floor for the occasional much needed naps between classes and in the day following late night A01 projects. Munchies sessions at the house during Reading week also served to strengthen the ties between the ECs. Incidentally, the final phase of the ISP building renovation was just finished last week. The ISP administrative offices (Steve s and mine) got a much-needed new coat of paint and a completely new ceiling to replace the one that nearly fell in earlier this year. Other than the eventual replacement of the aging chairs in the ISP classroom, we should be all set for the next decade or so, facility-wise.

This year marks the first time that we awarded the ISP Distinguished Honor Thesis Prize. Through a generous donation from WCAS, we were able to finance this award, which is shared between **Rachel Scheidegger** and **Tiara Kawahara** this year. I hope to continue this tradition to recognize yearly the students who have carried out the most outstanding independent research through ISP 398. Hence, I welcome suggestions from alumni and friends on how we can permanently endow this award. As a flagship program in WCAS and the university, it is time for ISP to have an award of its own.

This year also marks the first time that ISP has entered into a partnership with WCAS and the physics department to fund summer grants for ISP freshmen and sophomores who were not able to receive either university or WCAS grants to do research at NU this summer. More and more of our freshmen and sophomores are starting to do research in their first two years, and this year the university was not able to fund summer grant applications beyond the junior/advanced sophomore level. The generous donations from ISP alumni and friends have allowed us to step in right away to fill this gap and support worthy proposals from our young and ambitious students.

Much remains to be done to improve the ISP curriculum. While the quality of individual teaching has continue to remain at a high standard via the numerous teaching awards and recognitions that our faculty received, the integration of the ISP first- and second-year classes needs to be strengthened after almost thirty years. We went through a curriculum review this year and received many good ideas on how to proceed on this front. **Rob Nelson** (EC84) and ISP faculty **Mike Stein** and **Sandy Zabell** have suggested ISP freshman seminars where students can combine a study of ethics in science with a study of the lives and works of famous scientists. On another front, our famous A01 course has been extensively revamped this year by **Taylor Raack** with significant help from **Rocky Jones** and a cadre of enthusiastic A01 TAs and instructors. We will expand A01 into an optional ISP 398 special project for student to take in the Fall of their second year in the use of databases and parallel computing in research.

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Director's Letter *(continued)*

On the recruiting front, our incoming class this year is 22 strong with the highest quality and the youngest ISP of this decade **Karl Zipple (EC 05)** will be entering ISP this Fall at the age of 16. Four other EC05 students are doing research this summer at NU: **Benjamin Farah**, **Mike Han**, and **Kita Ryosuke** are working with Professor Hilary Godwin in the Undergraduate Success in Science program, where they study environmental contamination in Chicago neighborhoods, and **Sharan Srinivasan** is working with me on the development of new olefin metathesis catalysts.
I hope that you are enjoying a great summer and that this past year has brought you many successes. Please tell us about them by sending Steve Daut (ispadmin@northwestern.edu) or me (ispdir@northwestern.edu) a note. If you have a chance to be on campus next year, we invite you to stop by to renew old friendships and see the progress that the program has made over the years. Thank you for being ISP and thank you for your support.

SonBinh T. Nguyen
Director of the Integrated Science Program,
Dow Chemical Company Research Professor, and
McCormick Professor of Teaching Excellence

Awards and Honors

(Note: EC = Entering Class, WCAS = Weinberg College of Arts and Sciences)

We had many award winner and honors recipients this year. Our highly esteemed ISP graduate, NU graduate student, and long-time ISP Math teaching assistant **Matt Salomone (EC98)** was awarded a Weinberg College Outstanding Graduate Student Teacher Award. Continuing an ISP tradition, **Jeff Kaplan (EC03)** was awarded a Goldwater Scholarship this year. **Laura Blecha (EC01)** received a Gates Millennium Scholarship to study at Cambridge this fall. The last NU winner of the Gates Cambridge Scholarship was ISP **Daniel Choate (EC97).** Go ISP!

Jin Suntivich (EC02) won both the Chicago Regional Scholarships, as well as the Prestigious 2005 ASM George A. Roberts Scholarship. Jim also won American Society for Metals (ASM) one of the top poster prizes at the third annual NU Undergraduate Research Symposium. **Tiara Kawahara (EC01)** was awarded one of the top poster prizes at the inaugural Chicago Area Undergraduate Research Symposium. Former Goldwater winner **Wenhao Liu (EC01)** was awarded a National Science Foundation Graduate Research Fellowship as well as the 2005 Marple-Schweitzer Memorial Award for being the top chemistry graduate this year. **Chiaki Nakanishi (EC02)** was granted an Erwin Macey Scholarship in the Life Sciences for her work with Professor Richard Carthew. **Lance Min (EC03)** won a Steve S. Kang Young Artists &

Chiaki Nakanishi (EC02) hard at work in the laboratory of Dr. Richard Carthew.

Scholars Fund award for 2005. Last but not least, **Sam Blinstein (EC03)** won a 2005 General John Wickham Scholarship.

Tiara Kawahara (EC01), **Kush Patel (EC01)**, **Rachel Scheidegger (EC01)**, and **Jason Stein (EC02)** graduated with ISP honors this year. Other ISPs who graduated with honors include **Laura Blecha (EC01, in physics)**, **Wenhao Liu (EC01, in chemistry)**, and **Taylor Raack (EC01, in CIS)**. Tiara and Rachel also shared our first-ever ISP Distinguished Honors Thesis Award. Each student was awarded $400 for her excellence in research. Additionally, Jason, Rachel, and Wenhao were inducted into Phi Beta Kappa. **Silpa Patel (EC01)** was inducted into Phi Beta Kappa as a junior only twenty WCAS student each year were so honored.

Taylor Raack (EC01) was inducted into the Associated Student Government (ASG) Faculty Honor Roll (FHR) for his work with our A01 Computing Applications class. We believe this is the first time a student instructor has won this award at NU. ISP faculty members **Mike Stein**, **Fred Rasio**, and **SonBinh Nguyen** were also inducted into the ASG FHR this year. SonBinh was appointed to the Charles Deering McCormick Professorship of Teaching Excellence for a three-year term.

Congratulations to everyone on their outstanding achievements. Keep up the great work!

Summer Plans

More and more, research has become an integral part of ISP. Our students take part in a wide variety of research projects through the academic year, and many continue these projects over the summer. Several of our students, including quite a few rising sophomores and four entering freshmen (see Director s letter), will be getting their feet wet in new projects and tackling new challenges over the coming months. Below is just a sample of what our students will be working on this summer.

Sungeeta Agrawal (EC02) received a University Research Grant (URGC) to fund her work with Professor Richard Morimoto in the BMBCB department. Her project is entitled Study of Kinases Involved in the Heat Shock Response .

Mitchell Bekritsky (EC04) will also be working in the laboratory of Professor Richard Morimoto over the summer. He will be conducting research using bioinformatic techniques. This work will be funded by a WCAS grant.

Sam Blinstein (EC03) received a WCAS grant to work with former ISP Director Bill Halperin in the Physics Department. Sam s research for the summer will focus on perfecting the chemical synthesis of silicate aerogel which does not shrink or crack. He will then examine the interaction of these materials with 3He superfluid.

Matt Gill (EC03) will be working with Professor Anupam Garg of the Physics Department on the application of semi-classical ideas to better understand the behavior of Multiple Spin Systems. Matt s work will be partially supported by a joint ISP/WCAS grant this summer.

Lauren Holliday (EC02) reports, I ve been working on the special features in the Electronic Encyclopedia of Chicago. The Encyclopedia just came out a few weeks ago and looks great! Check it out at http://encyclopediaofchicago.org/. Lauren is also interning at the Museum of Contemporary Art in Chicago where she is building Flash applications and teaching staff members basic image processing techniques. In addition, she is working in NU Academic Technologies creating digital art projects with several NU professors.

Becky Hostetler (EC02) will be continuing her research in Professor Linda Hicke s lab where she is investigating the effects of polyglutamine-rich regions in endocytic proteins. Becky won a URGC grant to support her work this summer.

Caleb Hsieh (EC04) will be working at the Johns Hopkins REU program in Materials Science with Dr. Robert Leheny.

Gillian Hsieh (EC03) will be studying nickel-based superalloys with different refractory elements added in Dr. David Seidman s Materials Science lab. This work will be supported by an NSF REU grant.

Jennifer Hobbs (EC04) will be going to Ocean City, NJ with Campus Crusade for Christ on a summer project for 12 weeks.

Genevieve Kahrilas (EC03) will be working with Neurobiology and Physiology Professor Fred Turek in his sleep lab over the summer. I m not sure about the details of my project, she says, but I ll be working a lot with mice.

Jeff Kaplan (EC03) will be working in the Physics Department with Professor Vicky Kalogera. Jeff s work, which analyzes theoretical data on binary neutron star systems, will be funded in part by a grant from WCAS.

Andrew Karaba (EC03) will be working in Professor Fred Lewis s lab in chemistry. He will be continuing his ISP 398 study of quadruplex DNA.

Bryan Leavitt (EC04) will synthesize organic molecules which behave like wires in Professor Wasielewski s lab in the Chemistry Department this summer. Specifically, Bryan will be making molecules of varying length and comparing the speeds of electron transfers from one end to the other. Bryan s work will be funded by a WCAS summer research grant.

Andrew Lee (EC03) is currently finishing a research project that he initiated with Professor Diermeier of Kellogg and the WCAS political science department over this past school year. He received an Institute for Policy Research stipend to help build models of coalition formation, which take into account various variables such as degrees of self-interest, power distributions, trust functions, and information exchange. He will also be working in Professor Indira Raman s laboratory starting in July where he will mutate voltage-gated ion channels in Purjinke neurons to determine the structure-function relationships of key subunits.

Todd Levin (EC02) will be here on campus working with Physics Professor Prem Kumar on a summer grant researching Quantum Cryptographic Methods for the Regular Internet .

Tom Lipmann (EC03) will continue to work in Prof. Bill Halperin s lab. He will be carrying out the numerical simulation of strained aerogels. Tom s project will be partially supported by a joint ISP/WCAS/Physics grant.

Andrew Karaba (EC03) conducts research in Dr. Fred Lewis's chemistry lab.

Becky Miller (EC02) is doing research in bioethics with Dr. Laurie Zoloth of the Northwestern School of Medicine. She will be examining conflicts of interest in clinical drug trial funding, looking especially at recent scandals at the National Institute of Health. This work will be funded by a research grant from WCAS.

Lance Min (EC03) will continue his research in the Physics Department with Professor John Ketterson. Last summer, Lance performed simulations on the possibility of enhancing the performance of optical microscopes using guided waves. This summer, he will put the results of those simulations into practice by building a prototype instrument.

Summer Plans

Chiaki Nakanishi (EC02) will be working in Dr. Richard Carthew s lab at Northwestern this summer as an Erwin Macey Scholar in the Life Sciences. Her project focuses on the genetic analysis of RNA interference (RNAi) in Drosophila. In particular, Chiaki will identify genes involved in the RNAi pathway which plays an important role in regulation of specific gene expression.

Suraj Pradhan (EC04) will be working with Professor Ravi Allaba in the Department of Neurobiology and Physiology over the summer. The project he is working on includes the identification of circadian genes in fruit flies and the development of methods to analyze fruit fly behavior.

Amy Rines (EC02) will be here in the summer continuing her research in Dr. Erik Sontheimer s lab. She will be studying the possible ubiquitin regulation of the RNA splicing factor Prp8. This work will be supported by an URGC grant.

Anup Shah (EC03) will be working in Prof. SonBinh Nguyen s Chemistry lab over the summer. He received an NSF-funded REU grant in Materials Science, as well as a Murphy Society Nanotechnology grant which allows for time on various electron microscopes such as SEM and TEM. He is using these grants to attempt to disperse, characterize, and test the material properties of semiconducting nanorods made out of a terthiophene polymer.

Will Shepherd (EC03) is going to be working with Physics Professor Fred Rasio. Will s research will entail investigating the formation dynamics of X-ray binaries.

Jin Suntivich (EC02) received a WCAS grant to support his work with Materials Science Professor Mark Hersam. He will be researching methods to separate carbon nanotubes by chiralities. Jin will also be one of our Student Advisory Board members for next year along with **Vivian Leung (EC04)**.

Audrey Thompson (EC02) will be working for Deloitte Consulting in Chicago as an actuarial consultant during a 10-week internship.

Mark Tibbitt (EC03) will be working with Physics Professor Fred Rasio through a NASA-NU summer fellowship. He will be writing a program that will allow him to run stellar simulations and predict which stellar clusters may be able to host viable planets based on the current knowledge of biology and chemistry.

Gabe Weil (EC04) and **Tim Linden (EC04)** will be working with Professor Andre de Gouvea in the Physics Department. Both Gabe and Tim plan to explore the physics associated with neutrino oscillations and learn to compute neutrino oscillations using both analytical and numerical methods. Their projects are partially supported by joint ISP/WCAS/Physics grants this summer.

Thomas Yohannan (EC03) will be working with Prof. SonBinh Nguyen in the Chemistry Department. Thomas s work focuses on the development of a nanoscale polymer vehicle for the targeted delivery of anticancer drugs. His research will be funded by a WCAS summer research grant and a Murphy Society Nanotechnology grant.

Our ISP Peer advisors for next fall will be **Gillian Hsieh (EC03)**, **Amy Rines (EC02)**, and **Thomas Yohannan (EC03)**. Our Freshmen Advisors will be former ISP Directors Professor David Buchholz and Professor Michael Stein. Thanks all!

Our Outstanding 2005 Graduates

Laura Blecha (EC01) graduated with majors in ISP and Physics (with honors). Laura was awarded a Gates Cambridge Scholarship to study in England in Fall 2005. She was named Outstanding Junior in Physics and Astronomy at Northwestern in 2004 and was inducted into Sigma Pi Sigma, the national physics honor society. Laura worked for a several quarters with Professor Vicky Kalogera where her research project focused on a study of the interactions of massive black holes with other stars in stellar clusters to determine whether the black holes will form mass-transferring binary systems. After her studies at Cambridge, Laura plans to enter a physics Ph.D. program in the United States.

Rocky Jones (EC01) was one of our A01 Computing Applications TA s for the

ISP freshmen Suraj Pradhan, Avinash Honasoge, Thomas Wytock, Albert Kang, Gabe Weil, and Tim Linden researching the aerodynamic properties of Ultimate Frisbee.

Our Outstanding 2005 Graduates

last two years. He graduated with majors in ISP and Mathematics. Rocky will be trading options, developing trading software, and doing quantitative analysis behind some new options trading models at Geneva Capital Investments in downtown Chicago starting in July. Rocky worked with Professor Paul Umbanhowar in the Physics Department where he wrote C and Basic code for a design competition robot and used the machine shop to assemble a robot from a design stemming from team collaboration. He also conducted research with Physics Professor Fred Rasio where he converted the results of 3-dimensional hydrodynamics calculations into professional quality audiovisual animations involving interactive VR models as well as fixed animations showing overlaid scalar and vectorial data. A polymath, Rocky also pursued independent studies with Professors Vicky Kalogera in Physics and Indira Raman in Neurobiology and Physiology while he was at NU. Rocky expects to spend a large part of the summer writing up his NU research for publications.

Tiara Kawahara (EC01) graduated with majors in ISP (with honors), Chemistry, and Biological Sciences. She had pursued independent research since the beginning of her junior year in Professor Richard Morimoto s Biology laboratory. Tiara s work focused on the function of celastrols as inducers of the heat shock response and she has published a manuscript, Celastrols as Inducers of the Heat Shock Response and Cytoprotection, in the *Journal of Biological Chemistry*. For her productivity in research, Tiara was awarded a WCAS summer grant in 2003, a Northwestern Undergraduate Research Grant in June 2004, and the ISP Distinguished Honors Thesis Award. She will attend graduate school at Stanford.

Wenhao Liu (EC01) graduated with majors in ISP and Chemistry (with honors). While at NU, Wen won the Chemistry Department MathCAD Award, the Goldwater Scholarship, the Marple-Schweitzer Memorial Award,

Our 2005 Graduating ISP class. Left to right: Marco Russo, Jason Stein, Laura Blecha, Wenhao Liu, Tiara Kawahara, Rachel Scheidegger, Rocky Jones, Taylor Raack, and Kush Patel.

and a National Science Foundation Graduate Research Fellowship. He was also inducted into Phi Beta Kappa this year. During the summer of 2004 at the IBM Almaden Research Center, Wen worked to develop new chemistry for synthesis of chain end functionalized polymers using Click reactions and radical addition fragmentation chain transfer (RAFT) living polymerization techniques. Wen also worked for a number of quarters with Chemistry Professor Michael Wasielewski where he investigated solid state solvation effect and its technical implications in creating Organic Light Emitting Diodes. His NU work earned him co-authorship on three scientific papers.

Kush Patel (EC01) graduated with majors in ISP (with honors), Mathematics, and Biological Science. Since October 2002, Kush has conducted molecular biology research in the laboratory of Professor Joseph Takahashi here at NU. Kush s research project focused on studying the role that the gene Bmal1 plays in the skeletal development and function in mice. For his productivity in research, Kush was awarded two prestigious Northwestern Undergraduate Research Grants to help him with the pursuit of this work. He was also the recipient of the Wolfstein and Myers-McGinty endowed scholarships at NU. In addition, he recently received an NSF Predoctoral Fellowship Honorable Mention Award. Kush s NU work will result in two scientific papers. He will attend graduate school at Johns Hopkins.

Silpa Patel (EC01) graduated in December 2004 with majors in ISP and Biological Sciences. She was inducted into Phi Beta Kappa as a junior in 2004. She is currently working at the University of California, San Diego in a microbiology lab where she is studying the pathogenesis of streptococcal infections. Silpa won a Goldwater Scholarship in 2003 and conducted research with Prof. Erik Sontheimer during her time at NU. Her NU research focused on the mechanism of pre-messenger RNA splicing which removes introns and ligates the exons to create mature mRNA. Silpa worked to create an mRNA substrate with structural alterations to investigate the effects that these alterations have on splicing.

Taylor Raack (EC01) was one of our lead A01 TA s for the past two years and was inducted into the ASG Faculty Honor Roll for his work with A01. He graduated with majors in ISP and Computing Information Systems (with honors) and served as a senior student marshals during commencement and convocation. He was a researcher/programmer for the past two summers at the NASA Glenn

Our Outstanding 2005 Graduates

ISPs take a break from studying during Reading Week to enjoy our annual Spring ISP BBQ.

Research Center, Electro-Physics Branch in Cleveland, OH. Taylor designed a 3D computer model for the creation and analysis of solar-selective cermet coatings and programmed a computer package for this model, which can be used by other researchers in the field. This work recently appeared in *Journal of Thin Solid Film* (Cermet Coatings for Solar Stirling Space Power). Taylor is also a whiz at electronics and lighting: he worked as the Head Audio Technician at Pick-Staiger Concert Hall here at NU where he set up equipment for shows, recorded and mastered concerts to CD audio, and acted as a liaison for guest artists. He plans to work in the computing field for a year before graduate school.

Marco Russo (EC01) graduated with majors in ISP and Chemistry. He conducted research at the Northwestern University Institute of Neuroscience at the Feinberg School of Medicine where he investigated vesicular glutamate transporters and unipolar brush cells in the mammalian cerebellum. He also studied physiology and functional anatomy, utilized techniques in fluorescence and confocal microscopy, immuno-histochemistry, and molecular biology. This work was conducted under the guidance of his faculty advisors, Drs. Enrico Mugnaini and M. Grazia Nunzi.

Rachel Scheidegger (EC01) graduated with majors in ISP (with honors) and Physics. She was awarded an undergraduate research grant this year from the NU Office of Fellowship for her honors thesis work. She also received the ISP Distinguished Honors Thesis Award. Rachel was inducted into Phi Beta Kappa this year and Sigma Pi Sigma, the national physics honors society, at the end of her junior year. A versatile physicist, Rachel has competed in the Robot Design Competition for the past two years. This year, she won third place, and her entry was voted sexiest robot! Rachel will be doing radiology work for a year at Evanston Northwestern Hospital for a year before graduate school.

Rena Shah (EC01) graduated with majors in ISP and Biological Science. Rena worked at the Loyola Medical Center in Maywood, Illinois with Drs. John Lee and Mark Walzer as an assistant researcher. In this position she studied Alzheimer s disease, specifically the colocalization of Tau-2 and Bcl-2 in Beta-Amyloid induced rat brains. In addition, Rena has carried out independent research with Dr. Richard Morimoto in Northwestern s Department of Biology where she characterized the novel gene Osr in Caenorhabditis elegans. Rena s work recently led to a publication in the journal *Genetics* (Caenorhabditis elegans OSR-1 Regulates Behavioral and Physiological Responses to Hyperosmotic Environments). She is planning on attending medical school.

Jason Stein (EC02) will graduate with a major in ISP (with honors). He was inducted into Phi Beta Kappa this year. Jason worked with Prof. Heidi Schellman at Fermi National Accelerator Laboratory on the D0 experiment in the Luminosity group where protons and antiprotons were accelerated and collided within a large magnetic ring, the Tevatron, to produce high-energy particles. Jason used computer-generated Monte Carlo experiments to predict the asymmetry in the production of the W boson in the D0 experiment. This study can help to correct or verify the current description of the internal structure of a proton, known as the Parton Distribution Function. Jason will be working at the National Institutes of Health as a Postbaccalaureate IRTA fellow for a year before graduate school.

Alumni News

Please drop us a note at infoisp@northwestern.edu or write us at ISP Northwestern University, 616 Noyes Street, Evanston IL 60201 if you have news that you would like to share with the rest of the ISP community. We love to hear about new research, personal accomplishments, career changes, and anything else you would like us to publish. Also, write us if you will be changing your mailing address. Keep in touch!

Tim Krauskopf (EC81) was featured in USA today on February 25th of this year. He has started his own trucking company and recently got his license to drive the big rigs! Read all about it at

http://www.usatoday.com/tech/news/2005-02-25-career-moving_x.htm?csp=36.

Rob Nelson (EC84) has ventured into the area of conservation and environmental education since leaving ISP in 1988. Through this work, he has become very familiar with the work of Aldo Leopold who was the first US professor of wildlife ecology and whose writings principally concerned our relationship with the natural world.

Steve Gaskill (EC95) wrote: I m about to graduate from Case Western Reserve University School of Law, having focused on intellectual property law. For the past year, I ve reviewed medical inventions (mostly neuroscience) for the Cleveland Clinic, and in that time I ve often reflected on how useful my ISP education was for my current job.

Jenny Wilson (EC96) wrote to let us know she is now working at environmental engineering firm Camp Dresser & McKee in Cambridge, Massachusetts.

Ken Yu (EC99) is attending the California Institute of Technology s and the University of Southern California s joint MD/PhD program in Biophysics/Computational Neuroscience and Medicine.

Alums Alia Majeed and Adam Tenderholt (both EC99) enjoy a lovely day at Pebble Beach, CA.

Emily McGuiness (EC99) wrote, I recently graduated from ISP in 2003 and am working for Beghou Consulting, a pharmaceutical consulting firm in Evanston. Beghou currently employs 2 ISP graduates (Steve Trokenheim (EC83) and Emily) and is very interested in recruiting new ISP graduates for employment.

Katie Lovejoy (EC99) wrote to let us know that she is enjoying life at MIT so far after her DAAD fellowship in Germany. She joined Professor Steven Lippard s chemistry laboratory last fall.

Brian Alexander (EC99) will be applying to Dental School this year after working for two years as a Health Care Consultant for Health Care Futures Edina, Minnesota.

Matt Salomone (EC98) completed his doctoral work here in the Northwestern Math Department this spring while maintaining a successful entertainment career as a member of the Klein Four Group, the premiere a capella group in the world of higher mathematics (http://www.math.northwestern.edu/~matt/kleinfour/). We would like to thank Matt for all of his work TA-ing the ISP math classes over the last few years. As mentioned above, Matt won the Weinberg College Outstanding Graduate Student Teacher Award for his TA work with ISP.

Alia Majeed (EC99) writes: After my first year of grad school, this summer will see me starting work in my thesis lab at the Carnegie Institute of Washington where the Plant Biology department of Stanford is based. Don t let the name fool you though, I will not in fact be studying plants. My work with Devaki Bhaya and Arthur Grossman will be on thermophilic cyanobacteria from the Yellowstone hot springs. This work is both laboratory- and field site-based, which I am quite excited about. Currently I m enjoying a month away from Stanford back at the barn in Wisconsin.

Donor Thanks

We appreciate the continuing support from our many alumni and friends over this last year. Laura Blecha (EC01), Nathaniel E. Brese (EC83), Mark Bollman (EC82), Jane Caldwell (EC88), Ted Carniol (EC81), Suzanne Casement (EC85), Nancy Carson, Stephen Cronen-Townsend (EC 85), Kevin Curran (EC90), David Darwin (EC 79), Craig Fithian (EC78), John Hebden, Randal (EC76) and Linda Lawrence Hoke, Joseph Hora (EC81), Philip Kaldon (EC76), Timothy Klitz (EC87), and Nancy Krasa provided ISP with munificent gifts.

Thanks as well to Timothy Krauskopf (EC 81) and Mele Howland, Nancy Levinger (EC79) and Peter Schmid, Rebecca Levin-Goodman (EC93), David Matheson (EC81), Steven McCullough (EC76), Jeffrey Miner (EC82), Yuji and Kayako Nakanishi, Joseph and Cheryl Pauli, Jim Pendleton (EC83), Andrew Poremba (EC85), Marcus Rafiee (EC80), Brad Sandor (EC79), Howard Schwartz (EC82), Robert Schwartz, Paul Kenji Seo (EC79), Robert Singer (EC88), Andrew Su (EC94), Adam Tenderholt (EC99), ChrisVargas (EC78), Sara B. Walters (EC78), Jenny Wilson (EC96), Eleanor Yang, and the Miriam & Stanley Schwartz, Jr. Philanthropic Foundation for their very generous donations.

Your loyal and staunch support of ISP allowed us to improve the facilities of the ISP House and to make valuable learning opportunities available to our current students. This year, a large part of your gifts went into supporting the research of several ISP freshmen and sophomores through joint summer grants with WCAS and the physics department. Remember, if you make a gift to NU, write ISP on the comment line of the check to make sure it goes to the Integrated Science Program. Keep in mind that many companies have matching programs for gifts. This could effectively double or triple the amount that you give. Please ask your employer s human resources department for information on how to do this.

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