

2013

Commencement and
Honors Celebration

*Life Saving
Innovations*



DREXEL UNIVERSITY
School of

Biomedical Engineering,
Science and Health Systems

COMMENCEMENT and HONORS CELEBRATION

Wednesday, June 12, 2013. 5 PM

Behrakis Grand Hall – Creese Student Center

{Creese Student Center is located on Chestnut Street, between 32nd and 33rd Streets }

Program of Events

RECEPTION – 5:00 PM

RECOGNITION PROGRAM AND DINNER – 6:00 PM

WELCOME AND GREETING by Dr. Banu Onaral, Director

Theme: *“Life Saving Innovations”*

SPECIAL RECOGNITIONS

Inspired Leadership Award (inspired by the legacy of Elisabeth Papazoglou) –
Ryan Baxter

Richard B. Beard Lifetime Achievement Award – **Peter Lewin**

Service Awards

- Service through Innovation / weServe – **Shirin Karsan** and **Frank Kepics** and student leaders **Ari Fishbein**, **Mengdi Tao**, **Samuel Kern**, **Oksana Vovchuk**, **Murynia Hernandez**, and **Kathryn Lank**
- Appreciation for Outstanding Service / weServe – **Andrew DiMatteo** and **Pareshkumar Brahmhatt**
- Peer Mentors – **Margarette Hernandez** and **Genymphas Higgs**

Life Saving Innovations Awards

- Lifetime Achievement – **Dov Jaron**
- Translational Research – **Karen Moxon**
- Teaching – **Kara Spiller** and **Joseph Sarver**

- **Unsung Hero (Staff) – Davood Tashayyod**
- **Unsung Hero (Faculty) – Adrian Shieh**
- **Unsung Hero (Research) – Ken Barbee**
- **Supporting Partners – Roy Carriker and William Regli**
- **College of Medicine Partners – Simon Giszter and Michael Weingarten**
- **Alumni Partner – Christopher Tihansky**
- **ABET Team – Donald McEachron, Andres Kriete, Fred Allen, and Carolyn Riley**
- **Graduate Student Mentor – Natalia Broz**
- **Undergraduate Student Mentor – Caryn Glaser**

Senior Design Team Awards

- **First Place Team: Bora Goekbora, Colin Pomerantz, Nicky Premnath, and Rob Stevenson / Advisor: Kara Spiller**
- **Runner-Up Team 1: A. Richard Cohen, Gary Place, Kelsey Ritter, Kevin Kauffman, and Sean Bishop / Advisor: Hasan Ayaz**
- **Runner-Up Team 2: Nick DiStasio, Jenna Israel, Kelsey Pagdon, and Angelo Patrinicola / Advisor: Sriram Balasubramanian**

STUDENT ACCOMPLISHMENTS AND HIGHLIGHTS

FACULTY AND STAFF ACCOMPLISHMENTS AND HIGHLIGHTS

PRESENTATION OF GRADUATING STUDENTS

REMARKS BY GRADUATING STUDENTS

- **Undergraduate Student Speaker – Nicholas DiStasio**
- **Graduate Student Speaker – Gozde Senel Ayaz**

CLOSING REMARKS by Fred Allen and Margaret Wheatley

GRADUATING CLASS OF 2013
Undergraduate Students
BS in Biomedical Engineering

Mohammed Faizaan Akhter
Aida Anzabi
Justin R. Bendigo
Sean Stephen Bishop
Sonya Borrison
Avni Choksi
Alan Richard Cohen
Adrian B. Curtin
Humberto De La Cruz
Juliana Charlotte DeMarici
Andrew Louis Dimatteo
Nicholas Distasio
Homaira Ferdous
Brianna C. Galligan
Bora Goekbora
James Michael Goodman, Jr
Sneha Guntaka
Margaret Ann Hernandez
Genymphas Berthold Higgs
Christine Maylin Ho
Jenna Rose Israel
Rena L. Judy
Kevin R Kauffman
Xin Li
Boryung Esther Lim
Tsz Yan Lo
Alexander G Marino
Shane Adam Moulton
Pedram Niknam Vazifeh
Christina Nikolos
James H. Nong
Kelsey Marie Pagdon
Jordan Adam Parellada
Nimisha A. Parikh
Bryan Matthew Parker
Angelo F. Patrino
Gary Michael Place
Colin J. Pomerantz

GRADUATING CLASS OF 2013

Nikhil Premnath
Suryalekshmy M. Rajasimhan
Ryan J. Riling
Kelsey J. Ritter
Milos Ruzic
Kelly Sanger
Darshak Sujal Shah
Jasmine Shirazi
Raghav Srinivasan
Robin Christopher Stevenson
Jessica Marie Stufflet
Katelyn Christine Sullivan
Aparna Swarup
Tulu Tekmen
Brynn Nicole Thallner
Jamie Thomas
Valerie J. Tutwiler
Master Syed Mohammed Usman Ali
Meenakshi Vidya Venkatachalam
Amanda P. Xu
Riddhiman Yadava
Aaron Yu

GRADUATING CLASS OF 2013

Graduate Students MS in Biomedical Science

Shady El Damaty
Yi Guo
Xiaomin Niu
Jia Nong
Thanh P Vuong
Xirong Zheng

MS in Biomedical Engineering

Myles Greyson Akin
Kamna Arya
Tejal Vishwanath Bhagwat
Avni Choksi
Adrian B Curtin
Brianna C. Galligan
James Michael Goodman Jr
Joshua L Harrison
Genymphas Berthold Higgs
Christine Maylin Ho
Rena L Judy
Aditi Kane
Guneet Singh Kohli
Xianda Long
Nicholas W. Meghri
Khoa Nguyen
Divya Nityanandam
James H Nong
Colin J Pomerantz
Nikhil Premnath
Chuan Qin
Milos Ruzic
Darshak Sujal Shah
Jasmine Shirazi
Mehmet Cagri Soylu
Raghav Srinivasan
Robin Christopher Stevenson

GRADUATING CLASS OF 2013

Matthew Vincent Talarico
Brynn Nicole Thallner
Valerie J Tutwiler
Meet Arvind Vaghani
Alicia Susan Varughese
Leslie Maria Vasquez
Meenakshi Vidya Venkatachalam
Brittany A Wilder
Robert J Wimmer Jr
Bailu Xu
Riddhiman Yadava
Aaron Yu

GRADUATING CLASS OF 2013
Graduate Students
PhD in Biomedical Engineering

Hatice Gozde Senel Ayaz
Doruk Baykal
Michael Caramian Cochran
Dannielle Solomon Figueroa
Michael E Frohbergh
Patrick Jasinski
Tae Gyo Kim
Ceyhun E Kirimli
Eric Bean Knudsen
Xu Meng
Chintan S Oza
Pimchanok Pimton
Anmiv Sunil Prabhu
Anootnara Talkul

STUDENT ACCOMPLISHMENTS AND HIGHLIGHTS

BIOMED Students Receive Whitaker International Program Fellowship Grants To Conduct Research and Study Abroad

The following students in BIOMED each received a Whitaker International Scholarship:

- **Nicholas DiStasio**, undergraduate student in BIOMED – Research at the Grenoble Institute of Technology in Grenoble, France.
- **Claudia Gutierrez**, BS/MS student in BIOMED – Research at the Laboratory of Lymphatic and Cancer Bioengineering (LLCB) at the École Polytechnique Fédéral de Lausanne.
- **Josa Hanzlik**, PhD candidate in BIOMED (Advisor: S. Kurtz) – Research at the Orthopedic Research Laboratory in the Netherlands.
- **Ivy Koberlein** – Outreach with the weServe group in Chicuque, Mozambique, Africa.
- **Claire (Martin) Witherel**, PhD candidate in BIOMED (Advisor: K. Spiller) – Research at the lab of Dr. Ardeshir Bayat at the University of Manchester in Manchester, England.
- **Alex Sevit**, undergraduate student in BIOMED (Advisor: S. Kurtz) – Study abroad at the Technical University of Denmark in Lyngby, Denmark.
- **Tony Yu**, BS/MS student in BIOMED – Research at the Shanghai Key Tissue Engineering Laboratory at Shanghai Jiao Tong University (SJTU).

BIOMED Students Win 2nd and 3rd Place at the 39th Annual Northeast Bioengineering Conference (NEBEC) Senior Design Competition

Brianna Galligan, Ryan Riling, Aparna Swarup, and Jessica Stuffed, all undergraduate students in BIOMED (Advisors: A. Kriete, C. Sunkari and D. Alfego), won 2nd Place at the 39th Annual NEBEC Senior Design Competition at Syracuse University, April 5-7, 2013, for their project titled “Peptide-based Delivery System Used for Tagging Syk Tyrosine Kinase Biomarker in Skin Cancer and Development of a Hyperspectral Imaging Device To Detect the Biomarker.” Bora Goekbora, Colin Pomerantz, Nikhil Premnath, and Robin Stevenson, all undergraduate students in BIOMED (Advisors: K. Moxon, K. Barbee, and K. Spiller), won 3rd Place for their project titled “A Bi-Layer Hydrogel Wound Dressing Engineered for Optimal Exudate Absorption and Silver/Copper Release.”

Lorenzo Albala and Teammates Win the Overall Team Title at the 75th Annual Dad Vail Regatta

Lorenzo Albala (BS/MS student in BIOMED) and teammates won the overall

team rowing title at the 75th Annual Dad Vail Regatta on May 11, 2013, in Philadelphia, PA. Additional distinction:

- Lorenzo and teammates won 2nd Place at the prestigious 2012 Henley Royal Crew Regatta in Henley-on-Thames, England.

James Andorko and Nutte Tarn Teraphongphom Win 1st Place and Honorable Mention in the Graduate Poster Presentation Category at the 39th Annual Northeast Bioengineering Conference (NEBEC)

James Andorko and Nutte Tarn Teraphongphom, both graduate students in BIOMED (Advisor: M. Wheatley), won 1st Place and honorable mention, respectively, in the graduate poster presentation category at the 39th Annual NEBEC at Syracuse University, April 5-7, 2013. James won for his poster “Development of Stealth Polymeric Ultrasound Contrast Agents” and Tarn won for the poster “Multimodal Polymeric Contrast Agents.”

Rosemary Bastian, Lauren Jablonowski, Yemin Lan, Sina Nassiri, and Joshua Samuels Receive 2013 Graduate Student Day Awards

Each year, the Office of Graduate Studies’ Graduate Student Research Excellence Committee recognizes the outstanding contributions of graduate students to the Drexel community. The Committee selected the following BIOMED graduate students as awardees for 2013:

- **Research Excellence Award (Doctoral):** Rosemary Bastian (Advisors: Irwin Chaiken and Adrian Shieh)
- **Teaching Excellence Award:** Sina Nassiri (Advisor: Kara Spiller)
- **Graduate Spirit Award:** Joshua Samuels (Advisor: Peter Lewin)
- **Highly Commended – Research Excellence Award (Doctoral):** Yemin Lan (Advisors: Gail Rosen and Andres Kriete)
- **Highly Commended – Teaching Excellence Award:** Lauren Jablonowski (Advisor: Margaret Wheatley)

Chris Bawiec Publishes a Paper on Finite Element Optimization of a Portable Ultrasound Applicator Used for the Treatment of Chronic Wounds in the Journal Ultrasonics

Chris Bawiec, PhD candidate in BIOMED (Advisor: P. A. Lewin), published the paper titled “Finite Element Static Displacement Optimization of 20-100 kHz Flexural Transducers for Fully Portable Ultrasound Applicator” in the February 2013 issue of the journal Ultrasonics (co-authors: Y. Sunny, A. T. Nguyen, J. A. Samuels, M. S. Weingarten, L. A. Zubkov, and P. A. Lewin).

Ryan Baxter Is Featured in a Philadelphia Inquirer Article on His Receiving a Lindback Foundation Distinguished Teaching Award

Ryan Baxter, BIOMED alumnus (PhD in BME '11), was featured in a Philadelphia Inquirer article on his receiving a Lindback Foundation Distinguished Teaching Award for his outstanding service as a public school teacher and mentor in the Philadelphia School District.

David Diaz Is Selected To Participate in the American Society for Engineering Education/National Science Foundation (ASEE/NSF) Engineering Innovation Fellowship Program for Summer 2013

David Diaz, PhD candidate in BIOMED (Advisors: L. Zubkov and M. Neidrauer), was selected to participate in the ASEE/NSF Engineering Innovation Fellowship program for Summer 2013 at Spectral MD Inc. in Dallas, TX.

Bora Goekbora, Colin Pomerantz, Nicky Premnath, and Rob Stevenson Win 1st Place in the 2013 BIOMED Senior Design Competition

Bora Goekbora, Colin Pomerantz, Nicky Premnath, and Rob Stevenson, all undergraduate students in BIOMED (Advisor: Kara Spiller / Support: Dolores Conover, Sina Nassiri, and Frank Kepics), won 1st Place in the 2013 School of Biomedical Engineering, Science, and Health Systems Senior Design Competition for their project titled "A Hydrogel Wound Dressing with Bilayer Crosslinking and Silver/Copper for the Treatment of Severe Burns." The team was also selected to represent the School at the University Senior Design Reception on June 6, 2013. The Runner-Up teams are listed below and will be honored at the 2013 BIOMED Commencement and Honors Celebration on June 12, 2013 in Behrakis Grand Hall.

Runner-Up Team 1: "Prosthetic Grabbing Hand"

Members: A. Richard Cohen, Gary Place, Kelsey Ritter, Kevin Kauffman, and Sean Bishop

Advisor: Hasan Ayaz

Runner-Up Team 2: "Gas Delivery and Resuscitation Device"

Members: Nick DiStasio, Jenna Israel, Kelsey Pagdon, and Angelo Patrinicola

Advisor: Sriram Balasubramanian

James Goodman Receives an Honorable Mention for an NSF Graduate Research Program Fellowship

James Goodman, BS/MS student in BIOMED (Advisor: M. Wheatley), received an honorable mention for a fellowship from the 2013 National Science Foundation Graduate Research Fellowship Program (NSF GRFP).

Gaurav Goyal and Lauren Jablonowski Are Selected To Attend the NIH Clinical and Translational Research Course for PhD Students–2013 Cohort

Gaurav Goyal (Advisor: M. J. Kim) and Lauren Jablonowski, PhD candidate in BIOMED (Advisor: M. Wheatley) were selected to attend the NIH Clinical and Translational Research Course for PhD Students–2013 Cohort in July 2013 at the NIH campus in Bethesda, MD. The purpose of this course is to demonstrate the role of PhD scientists in clinical and translational research.

Nicholas Grzeczowski Speaks at the Anthony J. Drexel Society Gala

Nicholas Grzeczowski, BS/MS student in BIOMED, spoke at the annual Anthony J. Drexel Society Gala, Drexel's premier annual black-tie event, about his career goals and how Drexel helped him to achieve them.

Genymphas Higgs Receives the James A. Rand Award for Most Outstanding Paper at the Meeting of the American Association of Hip & Knee Surgeons

Genymphas Higgs, BS/MS student in BIOMED (Advisor: S. Kurtz), received the James A. Rand Award for Most Outstanding Paper presented at the Annual Meeting of the American Association of Hip and Knee Surgeons for the paper titled "Is Increased Modularity Associated with Increased Fretting and Corrosion Damage in Metal-on-Metal Total Hip Arthroplasty Devices?" The manuscript was earmarked for publication in the Journal of Arthroplasty and was based on a previous project focused on evaluating modular tapers in total hip arthroplasty components, for which American Standard Test Method (ASTM) International awarded Genymphas "Best Student Paper" in May 2012. Additional distinction:

- Genymphas received a Drexel University Co-operative Education Award for his exceptional effort in fulfilling the ideals of co-operative education.

Lauren Jablonowski Wins 1st Place at the 2013 International Society of Pharmaceutical Engineers Delaware Valley Chapter (ISPE-DVC) Poster Competition

Lauren Jablonowski, PhD candidate in BIOMED (Advisor: M. Wheatley), won 1st Place in the graduate student category at the 2013 ISPE-DVC Poster Competition on February 13, 2013 for the poster titled "Induction of Apoptosis by Targeted Ultrasound Contrast Agents in Cancer Therapy." Lauren will attend the ISPE Annual Meeting in Washington, DC in November 2013 to participate in the International Student Poster Competition.

Selena Lin and Mariya Tohfafarosh Win 2nd and 3rd Place in the Laurence A. Baiada Institute for Entrepreneurship 2013 Ian J. Berg Business Plan Competition

Selena Lin, BS/MS alumni in BIOMED and PhD candidate in CoM, and Mariya Tohfafarosh, PhD candidate in BIOMED (Advisor: S. Kurtz), won 2nd and 3rd

Place, respectively, in the Laurence A. Baiada Institute for Entrepreneurship 2013 Ian J. Berg Business Plan Competition. Selena and her teammate Ali Sajwani (CoB) won for their project “U-Screen,” an innovative personalized cancer screening and management solution through a noninvasive, targeted, next generation sequencing approach. Mariya won for her project titled “ChondroFit, a Bioresorbable Cartilage Plug,” a global medical device designed to facilitate and promote cartilage growth using the body’s self-healing capabilities. Dr. Robert Loring, Senior Entrepreneur in Residence in BIOMED, and BIOMED students Timothy Bertone, Priyanka Kasbekar, Kayla Wroblewski, and Joyce Zheng, were instrumental in contributing towards the business plan Mariya developed and presented. Additional distinction:

- Selena was selected to participate as a QED student fellow at the University City Science Center in Fall 2012.

Daryl Omire-Mayor Is Selected To Attend the 2013 IEEE Engineering in Medicine and Biology Society (EMBS) International Summer School on Neural Engineering (ISSNE)

Daryl Omire-Mayor, graduate student in BIOMED (Advisor: K. Pourrezaei), was selected to attend the 2013 IEEE EMBS International Summer School on Neural Engineering (ISSNE), July 7-14, 2013 in Shanghai, China. Daryl was also selected by the IEEE EMBS Standing Steering Committee to receive a travel award.

Xu Meng Publishes a Paper on a Digital Wireless Intracranial Pressure Sensor for the Assessment of Traumatic Brain Injury in the IEEE Transactions on Microwave Theory and Techniques

Xu Meng, Ph.D. candidate in BIOMED (Advisor: A. Rosen), published the paper titled “Dynamic Evaluation of a Digital Wireless Intracranial Pressure Sensor for the Assessment of Traumatic Brain Injury in a Swine Model” (co-authors: K. D. Browne, H. Shi-Min, and C. Mietus) in the January 2013 issue of the journal IEEE Transactions on Microwave Theory and Techniques.

Averie Palovcak and Veronika Legkobitova Present at the 2nd Annual Harvard University Undergraduate Research Conference

Averie Palovcak, undergraduate student in BIOMED, and Veronika Legkobitova (MEM) were accepted by Harvard University to present at the 2nd Annual Harvard University Undergraduate Research Conference on January 24-26, 2013. Averie and Veronika were 2012 Students Tackling Advanced Research (STAR) Scholars working on undergraduate research with Drs. Margaret Wheatley and Sriram Balasubramanian, respectively.

Madhur Parihar Is Accepted for a 2013 German Academic Exchange Service Research Internship in Science and Engineering (RISE)

Madhur Parihar, graduate student in BIOMED, was accepted for a Summer 2013

German Academic Exchange Service RISE internship at Alcatel Lucent in Stuttgart, Germany.

Alex Sevit Receives a Goldwater Scholarship for His Research on Orthopedic Implants

Alex Sevit, BS/MS student in BIOMED (Advisor: S. Kurtz), received a two-year Goldwater Scholarship to work on methods of pre-treating orthopedic implants to prevent patient infections. The Goldwater Scholarship was established with the goal of recognizing the nation's top undergraduates in Science, Technology, Engineering, and Math (STEM) fields.

Arpit Shah and Nathaniel Bridges Are Finalists for a Department of Defense (DOD) Science, Mathematics and Research for Transformation (SMART) Scholarship

Arpit Shah and Nathaniel Bridges, both PhD candidates in BIOMED (Advisors: A. Shieh and K. Moxon, respectively), were finalists for a DOD SMART Scholarship for the academic year 2013-2014.

Youhan Sunny Publishes a Paper on the Electrical Optimization of a Portable Ultrasound Applicator Used for Biomedical Ultrasonics Applications in the Journal Ultrasonics

Youhan Sunny, PhD candidate in BIOMED (Advisor: P. A. Lewin), published the paper titled "Optimization of Un-tethered, Low Voltage, 20–100 kHz Flexural Transducers for Biomedical Ultrasonics Applications" in the September 2012 issue of the journal Ultrasonics (co-authors: C. R. Bawiec, A. T. Nguyen, J. A. Samuels, M. S. Weingarten, L. A. Zubkov, and P. A. Lewin).

Nutte Tarn Teraphongphom Is a Winner at the 2013 American Chemical Society (ACS) Annual Younger Chemists Committee (YCC) Poster Session

Nutte Tarn Teraphongphom, PhD candidate in BIOMED (Advisor: M. Wheatley), was a winner in the 2013 American Chemical Society (ACS) Annual Younger Chemists Committee (YCC) Poster Session for the poster titled "Multimodal Polymeric Contrast Agents," presented February 21, 2013 at Drexel University.

Nathan Tessema Wins 2nd Place in the Drexel 1st-Year Writing Program Awards Competition

Nathan Tessema, undergraduate student in BIOMED, won 2nd Place in the Drexel 1st-Year Writing Program Awards competition and received his award at the Department of English & Philosophy Awards Ceremony on May 24, 2013.

Gabrielle Toner Receives the 2013 Dr. Jacquelyn West-Ford Award for Humanitarianism

Gabrielle Toner, undergraduate student in BIOMED, received the 2013

Dr. Jacquelyn West-Ford Award for Humanitarianism. This award is dedicated to the memory of Dr. Jacquelyn West-Ford (1960 - 2007), Senior Associate Dean of Students, in recognition of a Drexel University undergraduate student who demonstrates exceptional leadership in cultivating religious and spiritual life on campus.

Konstantinos Vrontis Receives the Dimitri J. Ververelli Memorial Scholarship for Architecture and Engineering

Konstantinos Vrontis, undergraduate student in BIOMED, received the Dimitri J. Ververelli Memorial Scholarship for Architecture and Engineering for his outstanding scholarship. The scholarship was established by Mrs. Anastasia Ververelli to honor the memory of her husband, Dimitri J. Ververelli, past president of the Hellenic University Club of Philadelphia.

Rachel Wang Receives a Sharif Rahman Scholarship for Study Abroad in London

Rachel Wang, BS/MS student in BIOMED, received a Sharif Rahman Scholarship on behalf of the Foundation for International Education (FIE) for the Fall 2012 semester program in London.

FACULTY AND STAFF ACCOMPLISHMENTS AND HIGHLIGHTS

BIOMED Faculty Members Receive Wallace H. Coulter Translational Research Seed Grants

The following BIOMED faculty received a 2012 Wallace H. Coulter Translational Research Seed Grant:

- Dr. Hasan Ayaz, assistant research professor in BIOMED and co-director, Plasma Medicine Lab, AJ Drexel Plasma Institute, and Dr. Patricia A. Shewokis, joint professor in CNHP and BIOMED, received a \$55K Coulter seed grant for the project titled “Feasibility of using Functional Near-infrared Spectroscopy for Objective Assessment in Schizophrenia.”
- Dr. Gregory Fridman, assistant research professor in BIOMED, Dr. Suresh Joshi (CoM), and Kimberly Wasko (CoM) received a \$35K Coulter seed grant for the project titled “Investigations on Non-Thermal Plasma-activated Antimicrobial Wound Dressing.”
- Dr. Meltem Izzetoglu, research assistant professor in BIOMED, and Dr. Zvia Breznitz, University of Haifa, received a \$63K Coulter seed grant for the project titled “Reading Acceleration Program (RAP) for the Enhancement of Reading Skills of Atypical Readers.”
- Dr. Kara Spiller, assistant professor in BIOMED, and Dr. Michael Weingarten (CoM) received a \$50K Coulter seed grant for the project titled “Immunomodulatory Hydrogel Wound Dressings for the Treatment of Diabetic Wounds.”
- Dr. Yinghui Zhong, assistant professor in BIOMED, and Dr. Simon Giszter (CoM) received a \$50K Coulter seed grant for the project titled “Nanoscale Thin Coatings Capable of Sustained Release of Minocycline and Decorin for Neural Prostheses.” Dr. Zhong also received \$10K in Coulter seed funding for the project “Injectable Hydrogel Loaded with Particles Releasing Minocycline for Spinal Cord Repair.”

Dr. Fred Allen, Shirin Karsan and weServe Team Members Visit the Gambia Ministry of Health and the University of The Gambia (UTG) To Discuss Collaboration Opportunities

Dr. Fred Allen, assistant professor and associate director for undergraduate studies in BIOMED, Shirin Karsan, director of the weServe program in BIOMED, and Dhairy Pujara, associate director of the weServe program in BIOMED, along with weServe team members, traveled to The Gambia, West Africa July 20-31, 2012, to

meet with Mr. Kebba Badgie, CEO of Sulayman Junkung General Hospital (SJGH) to discuss formalizing Drexel's existing partnership with SJGH and expanding collaboration and partnering efforts to include developing memorandums of understanding (MOUs) with The Gambia Ministry of Health and the University of The Gambia (UTG) for collaboration opportunities.

Dr. Hasan Ayaz Is Co-Author of a 2013 Research Day Dean's Award Winning Project To Bridge Functional Optical Brain Image Data in Scientific Literature

Dr. Hasan Ayaz, research assistant professor in BIOMED, was a co-author with Yue Shang, Yuan An, Xia Lin, and Xiaohua Tony Hu (all in the iSchool) of a 2013 Research Day Dean's Award winning project titled "Ontology-Based Lexicon Enrich Method for Bridging Functional Optical Brain Image Data in Scientific Literature." Additional distinctions:

- Presented an invited lecture titled "Functional Near Infrared Spectroscopy: Principles and Applications" at the Shanghai Mental Health Hospital, Shanghai, China on July 16, 2012.
- Chaired a session titled "Cognitive Neuroscience and Consciousness Models" at the 5th International Brain Inspired Cognitive Systems Conference in Shenyang, China, July 11-14, 2012.
- Served on the program committee of the 3rd IEEE International Conference on Information Science and Technology, March 23, 2013, in Yangzhou, China.

Dr. Sriram Balasubramanian Receives a Scoliosis Research Society Grant for His Adolescent Idiopathic Scoliosis Project

Dr. Sriram Balasubramanian, assistant professor in BIOMED, received a 1-year \$22K new investigator grant from the Scoliosis Research Society, an international organization dedicated to the education, research and treatment of spinal deformity, for the project titled "The True Patho-Anatomy of the Rib Hump in Adolescent Idiopathic Scoliosis and Its Influence on Future Surgical Intervention."

Dr. Jaimie Dougherty Wins the Post-Doctoral Award for Best Paper at the International Functional Electrical Stimulation Society (IFESS) Conference

Dr. Jaimie Dougherty, post doctorate researcher in Dr. Karen Moxon's neurorobotics lab in BIOMED, won the Post-Doctoral Award for Best Paper at the 17th Annual International Functional Electrical Stimulation Society (IFESS) Conference in Calgary Canada on September 9-12, 2012 for her paper titled "Volitional Hindlimb Movement after Complete Spinal Cord Transection using Cortical Control of FES." Marissa Powers and Eric Knudsen, BIOMED graduate students in the lab, also contributed to the paper.

Dr. Avram Edidin Is Featured in a Bloomberg Article on His Expert Testimony on Failing Hip Replacement Devices

Dr. Avram Edidin, research associate professor in BIOMED, was featured in a February 26, 2013 Bloomberg article on his expert testimony provided in a lawsuit against Johnson & Johnson regarding failing hip replacement devices.

Dr. Gregory Fridman Is Quoted in a Flying Kite Story About Biomedical Research in Camden, NJ

Dr. Gregory Fridman, assistant research professor in BIOMED and co-director of the AJ Drexel Plasma Institute Plasma Medicine Lab, was quoted in the September 18, 2012 online publication Flying Kite in a story about biomedical research that is taking place in Camden, NJ.

Dr. Uri Hershberg Co-authors a Paper on Regulatory Networks in the Journal BMC Bioinformatics

Dr. Uri Hershberg, assistant professor in BIOMED, published the article titled “Reconstruction of Regulatory Networks through Temporal Enrichment Profiling and Its Application to H1N1 Influenza Viral Infection” (co-authors: E. Zaslavsky, G. Nudelman, S. Marquez, B. Hartmann, J. Thakar, S. Sealfon, S. Kleinstein) in the April 2013 edition of the journal BMC Bioinformatics. Additional distinctions:

- Published the article titled “Establishing a Relationship between Bacteria in the Human Gut and Complex Regional Pain Syndrome” (co-authors: E. Reichenberger, G. Alexander, M. Perreault, J. Russell, R. Schwartzman, U. Hershberg*, G. Rosen* – *authors had equal contribution) in the December 2012 edition of the journal Brain Behavior and Immunity.
- Published the article titled “Conserved Variation: Identifying Patterns of Stability and Variability in BCR and TCR V Genes with Different Diversity and Richness Metrics (co-author: G. Schwartz) in the June 2013 journal Physical Biology.

Dr. Kurtulus Izzetoglu Co-Hosts a Bayesian Data Analysis Workshop at the Federal Aviation Administration (FAA) William J. Hughes Technical Center

Dr. Kurtulus Izzetoglu, research assistant professor in BIOMED, and Dr. Ulf Ahlstrom of the FAA Human Factors Branch, hosted a 2-day Bayesian Data Analysis workshop at the FAA William J. Hughes Technical Center as part of a joint FAA/Drexel University research project.

Dr. Joshua Jacobs Receives a 2012 National Alliance for Research in Schizophrenia and Affective Disorders (NARSAD) Young Investigator Grant from the Brain & Behavior Research Foundation

Dr. Joshua Jacobs, assistant professor in BIOMED, received a 2-year \$60K

2012 National Alliance for Research in Schizophrenia and Affective Disorders (NARSAD) Young Investigator Grant from the Brain & Behavior Research Foundation for his research on working memory and how it relies on precise patterns of activity across widespread regions of the brain. Additional distinctions:

- Received a 2-year \$60K grant from the Brain & Behavior Research Foundation for the project titled “Stimulus-level Investigation of Human Working Memory: Implications for Schizophrenia.”
- Was featured in a November 8, 2013 DrexelNOW story on exploring the anatomy of memory recollection and looking inside the brain to discover the exact pattern of activity that produces a memory.

Dr. Dov Jaron Presents at the Forum on Science, Technology and Innovations for Sustainable Development in Rio de Janeiro, Brazil

Dr. Dov Jaron, Calhoun Distinguished Professor of Engineering in Medicine in BIOMED, participated in the forums on Science, Technology and Innovations for Sustainable Development in Rio de Janeiro, Brazil, June 11-15, 2012. These forums preceded the United Nations Rio+20 Summit. Dr. Jaron gave a presentation on a new initiative being launched by the International Council for Science (ICSU): Systems Analysis Approach to Health and Wellbeing in the Changing Urban Environment. Dr. Jaron was a member of the planning team that framed the science plan for this initiative.

Shirin Karsan Receives the Thomas Jefferson University (TJU) Alumni Special Achievement Award

Shirin Karsan, director of the weServe program in BIOMED, received the Thomas Jefferson University Alumni Special Achievement Award on June 6, 2013. This award recognizes a graduate who has made a significant contribution to his or her profession in the areas of education, research or community service that reflects favorably on TJU as that person’s alma mater. Additional distinctions:

- Spoke on the topic of the “Power of We” at a TED conference brainstorming session in Edinburgh, Scotland on June 25, 2012, followed by a Q&A session and discussion on the topic titled “Development of Science Education and Healthcare in Africa.”

Dr. Andres Kriete Is an Invited Speaker at the Group for Research in Decision Analysis (GERAD) – IEEE Control Systems Society Outreach Meeting

Dr. Andres Kriete, associate professor in BIOMED, was an invited speaker at the Group for Research in Decision Analysis (GERAD) – IEEE Control Systems Society Outreach meeting on “Control Challenges in Disease: Unsolved Problems

and Research Directions,” June 26, 2012 in Montreal, CA. His talk was titled “Aging and Loss of Robustness: A Systems Biology Approach.” Additional distinctions:

- Co-chaired a session on “Biomarkers of Human Infectious Disease and Cancer” at the 2012 International Symposium on Molecular Medicine and Infectious Disease (ISMM&ID), held June 19-21, 2012 at CoM.

Dr. Raphael Lee Is Elected to the National Academy of Engineering for His Contributions to Understanding Cell Injury Associated with Trauma

Dr. Raphael Lee, Paul S. and Allene T. Russell Professor of Plastic Surgery, Dermatology, Biomechanics and Molecular medicine, University of Chicago Medical Center, who received his MS degree from the Biomedical Engineering and Science Institute (precursor to the School of Biomedical Engineering, Science and Health Systems) in 1975, was elected to the National Academy of Engineering, the highest professional distinction in engineering, for his contributions to understanding cell injury associated with trauma, including electrical shock and thermal burns.

Drs. Peter A. Lewin, Leonid Zubkov, and Michael Weingarten and Doctoral Students Joshua Samuels, Chris Bawiec, and Youhan Sunny Pursue an NIH Supported Approach to Chronic Wounds Management That Is Accepted for Publication and Is Cited in Philadelphia Magazine

Drs. Peter A. Lewin, Richard B. Beard Distinguished University Professor of Biomedical and Electrical and Computer Engineering, and director, Biomedical Ultrasound Research and Education Center; and Leonid Zubkov, research professor, both in BIOMED; Dr. Michael Weingarten (CoM), along with Joshua Samuels, Chris Bawiec, and Youhan Sunny, all doctoral students in BIOMED (Advisor: P. A. Lewin), pursued an alternative, fully non-invasive NIH supported approach to Chronic Wounds Management. Chris Bawiec and Youhan Sunny developed the wearable ultrasound applicator, which was tested by Joshua Samuels in Dr. Weingarten’s wound clinic in CoM. The manuscript describing the details of the study was accepted for publication in the peer-reviewed, archive publication. The team’s Chronic Wounds Management research was also cited in the May 2012 issue of Philadelphia Magazine in the article titled “28 Amazing New Ways Philly Doctors Can Save Your Life,” under item 10, “How to Treat Chronic Wounds – Wound Healing at Drexel University College of Medicine and Temple University Hospital.” Additional distinctions:

- Dr. Lewin was quoted in a November 2, 2012 MedCity News story about technology he and his team are developing using ultrasound to assist in endotracheal intubation of infants. The technology is being developed with the assistance of Chris Bawiec and Youhan Sunny and as part of a Coulter funded project, in collaboration with CoM.

Drs. Don McEachron and Gloria Donnelly Publish a Paper on Chronobiology in the Journal Holistic Nursing Practice

Drs. Donald McEachron, research professor and associate director in BIOMED, and Gloria Donnelly (CoNHP) published the paper titled “Timing Is Everything: A Chronobiologist’s Perspective on Health, Illness, and Circadian Rhythms” in the August 2012 edition of the journal *Holistic Nursing Practice*. The journal interviewed Dr. McEachron on the paper’s topic. Additional distinctions:

- Dr. McEachron published the first of two volumes of his book titled “Chronobioengineering: Introduction to Biological Rhythms with Applications, Volume 1” with Morgan & Claypool Publishers.
- Published in the March and April 2013 editions of Drexel’s Student Health 101 online magazine the articles titled “Temporal Health” and “To Sleep or Not to Sleep: Is that Really a Question?”
- Featured in the March 15, 2013 edition of *The Triangle* in the article titled “LEDs Mimic Natural Light Patterns.”
- Guest on the December 3, 2012 podcast of “The Stupid Cancer Show” as part of its feature on chronobiology and cancer.

Dr. Karen Moxon Receives a Renewal of Her Shriner’s Research Grant for Neurorobotic Training

Dr. Karen Moxon, professor in BIOMED, received a renewal of her Shriner’s Research Grant for Neurorobotic Training for 4 more years with increased funding to \$230K/year for the project titled “Neurorobotic Training for the Control of Functional Electrical Stimulation to Restore Locomotion.” Additional distinctions:

- Gave the keynote address at the University of Medicine and Dentistry of New Jersey (UMDNJ) Annual Research Day event on May 5, 2013.
- Gave a Killam Research Seminar titled “Dynamics of Network Oscillations during the Transition to Seizure” at the Montreal Neurological Institute (MNI) at McGill University in Montreal Canada on January 15, 2013.
- Her lab published nine peer-reviewed papers, including the following: 1) “Changes in Network Dynamics during Status Epilepticus (S. Karunakaran, D. Grasse, K. Moxon) in the journal *Experimental Neurology*; 2) “Restoration of Controlled Unilateral Hindlimb Movements in the Rat by Epidural Electrical Stimulation” (J. Dougherty, E. Knudsen, J. Goodman, K. Moxon) in the journal *IEEE Transaction on Neural Rehabilitation*; 3) “Decoding Hindlimb Movement for a Brain Machine Interface after a Complete Spinal

Transection” (A. Manohar, R. Flint, E. Knudsen, K. Moxon) in the PLoS One; 4) “Passive Exercise of the Hind Limbs after Complete Thoracic Transection of the Spinal Cord Promotes Cortical Reorganization” (A. Graziano, G. Foffani, E. Knudsen, E. Shumsky, K. Moxon) in the PLoS One; 5) “Encoding of Temporal Intervals in the Rat Hindlimb Sensorimotor Cortex” (E. Knudsen, R. Flint, K. Moxon) in the journal *Frontiers in Systems Neuroscience*; 6) “Role of Cortical Reorganization on the Effect of 5-HT Pharmacotherapy for Spinal Cord Injury” (K. Moxon, T. Kao, J. Shumsky) in the journal *Experimental Neurology*.

Drs. Michael Neidrauer, Ken Barbee and Team Members Are Selected as Finalists for the Industrial Research and Development Poster Presentation Award at the Wound Healing Society Annual Meeting

Drs. Michael Neidrauer, assistant research professor in BIOMED, and Ken Barbee, associate professor in BIOMED, and co-authors U. K. Ercan, A. Bhattacharyya, R. Trikha, and S. G. Joshi, submitted an abstract at the Wound Healing Society meeting in Denver, CO on May 1-5, 2013 that was selected for an oral podium presentation and as a finalist for the Industrial Research and Development Poster Presentation Award for the poster “Antimicrobial Efficacy of a Topical Ointment Containing Nitric Oxide Loaded Zeolite.”

Dr. Banu Onaral Receives the Science, Mathematics and Research for Transformation (SMART) Women in Science & Technology Leadership Award for Pennsylvania

Dr. Banu Onaral, H. H. Sun Professor and Director, School of Biomedical Engineering, Science and Health Systems, received the Science, Mathematics and Research for Transformation (SMART) Women in Science & Technology Leadership Award for Pennsylvania for promoting and recognizing science and technology leadership in the Mid-Atlantic Region. Additional distinctions:

- Served on the R&D and Innovation Strategic Advisory Board of the Turkish Ministry of Development, which compiled a report to guide the country’s national innovation mobilization effort. She leads the Teknopark Istanbul-Academic Platform, which comprises eight elite Istanbul universities, as well as INOVITA, a regional health innovation partnership in Istanbul. She also serves as a senior advisor for innovation for Teknopark Istanbul and the Biomedical Research Center of Bio Istanbul.
- Authored the article “Emerging Economies, Enduring Partnerships” for the October 31, 2012 edition of *Science Translational Medicine* about the importance of international collaboration for translational biomedical research. She was also featured in a podcast interview in conjunction with the article.

- Gave a presentation titled “Innovation Partnership with Turkey: An Emerging Economy Primed for Technology-Based Growth and Development” at the Spring Industrial Partnership Conference hosted by the Global Offset and Countertrade Association (GOCA).
- Gave a presentation on “Innovation Partnership with Turkey: An Emerging Economy Primed for Technology-Based Growth and Development” at the 10th Annual Global Business Conference, hosted by the Philadelphia World Trade Center and the LeBow College of Business.

Alison Oxenberg Co-authors an Article on Critical Lessons of Using Digital Media for Social Change

Alison Oxenberg, undergraduate advisor in BIOMED, co-authored the article “Protest: Critical Lessons of Using Digital Media for Social Change,” published in the July-August 2012 edition of About Campus magazine.

Drs. Elisabeth Papazoglou, Leonid Zubkov, and Michael Neidrauer Developed the Quantum Dot-based Diagnostic Technology Licensed to QLIDA Diagnostics, Recipient of an Additional \$250K of Ben Franklin Technology Partners-Southeastern Pennsylvania (BFTP-SEP) Funding

Drs. Elisabeth Papazoglou, associate professor, Leonid Zubkov, research professor, and Michael Neidrauer, research assistant professor, all in BIOMED, and Dr. Michael Weingarten (CoM), developed the quantum dot-based diagnostic technology that was licensed to QLIDA Diagnostics, which received an additional \$250K of BFTP-SEP funding. Additional distinctions:

- Won the 2012 Symposium on Advanced Wound Care (SAWC) Fall 1st Place Clinical Research Poster Award for the poster titled “Diffuse Near Infrared Spectroscopy Prediction of Healing in Diabetic Foot Ulcers: A Human Study and Cost Analysis” (co-authors M. S. Weingarten, J. A. Samuels, M. Neidrauer, D. Diaz, J. McGuire, X. Mao, J. McDaniel, L. Jenkins, and L. Zubkov).
- Published the paper titled “Diffuse Near Infrared Spectroscopy Prediction of Healing in Diabetic Foot Ulcers: A Human Study and Cost Analysis” (co-authors M. S. Weingarten, J. A. Samuels, M. Neidrauer, D. Diaz, and J. McGuire), whose abstract scored the highest according at the Symposium on Advanced Wound Care (SAWC).

Dhairya Pujara Organizes TEDxChicouque, the First TEDx Event in Mozambique, Africa

Dhairya Pujara, associate director of weServe in BIOMED, organized TEDx-Chicouque, the first ever TEDx conference in Mozambique, Africa. Additional distinctions:

- Featured in the New York City based magazine Makeshift in a story titled “Confessions of a Medical Engineer” about his experience in Mozambique.
- Featured in an interview in Photo District News (PDN) about the success of Drexel’s first “TEDx – Drexel University” conference.

Dr. Patricia Shewokis Is Nominated by the Office of the Provost as an Outstanding Mentor at Drexel University

Dr. Patricia Shewokis, Professor in CoNHP with a joint appointment in BIOMED, was nominated by the Office of the Provost as an Outstanding Mentor at Drexel University.

Dr. Adrian Shieh Receives a Grant from the W.W. Smith Charitable Trust for His Interstitial Flow-Induced Breast Cancer Invasion Project

Dr. Adrian Shieh, assistant professor in BIOMED, received a 1-year \$100K grant from the W.W. Smith Charitable Trust for his project titled “Role of Heparan Sulfate Proteoglycans in Interstitial Flow-Induced Breast Cancer Invasion.”

Drs. Wan Shih and Ari Brooks Are Cited in the Philadelphia Inquirer and Are Interviewed on WPHL-TV 17 About Their Portable Breast Cancer Detection Device

Drs. Wan Shih, associate professor in BIOMED, and Ari Brooks (CoM) were cited in the October 18, 2012 edition of the Philadelphia Inquirer in an article featuring the breast cancer screening technology they and Dr. Wei-Heng Shih (MS&E) developed and tested. Drs. Shih and Brooks were also interviewed for a story on WPHL-TV 17 about their technology. Additional distinctions:

- Dr. Shih was cited in the August 20, 2012 issue of MedCity News and August 24, 2012 edition of WHY? Newsworks for having developed the early versions of a breast cancer detection device as part of a research project she led in the School of Biomedical Engineering, Science and Health Systems. The fingertip sensors technology Drs. Shih, Ari Brooks (CoM), and Wei-Heng Shih (MS&E) developed was licensed to the Philadelphia-based startup UE Lifesciences, which received an \$878K grant from the PA Department of Health’s Commonwealth Universal Research Enhancement (CURE) program to further commercialize and clinically validate the sensor technology.
- She and her colleagues were cited in the August 31, 2012 edition of Lab Talk on the site Nanotechweb.org, which highlighted the paper titled “Single ZnO Nanowire–PZT Optothermal-Field Effect Transistors” that was published in the journal Nanotechnology. This work is a collaborative effort between Dr. Shih’s group and Professor Yang-Fang Chen’s semiconducting group at National Taiwan University.

- Featured in the March 2013 edition of US Airways Magazine in the article titled: “Drexel University Reinvents Itself for the 21st Century and Beyond.”

Dr. Kara Spiller Receives a Burroughs Wellcome Fund 2013 Collaborative Research Travel Grant for Her In Vitro and In Vivo Evaluation of Macrophage Response to Biomaterials Project

Dr. Kara Spiller, assistant professor in BIOMED, received a 16-month \$10K Burroughs Wellcome Fund 2013 Collaborative Research Travel Grant for her project titled “In Vitro and In Vivo Evaluation of Macrophage Response to Biomaterials.” Additional distinction:

- Nominated as the academic representative for Drexel University to become a partner institution in the Sydney University Tissue Engineering Network (SUTEN).

Davood Tashayyod Is Cited in a MedCity News Article on the Smart Fabric Bellyband for Monitoring Fetal Wellbeing During Pregnancy

Davood Tashayyod, Coulter program director in BIOMED, was mentioned in a November 1, 2012 MedCity News story about the smart fabric bellyband that can comfortably monitor fetal wellbeing during pregnancy. The technology is being developed as part of a Coulter funded project and in collaboration with CoE, CoMAD, and CoM. Additional distinction:

- Gave a talk on the operational aspects of commercializing early medical device technologies via the Coulter-Drexel Translational Partnership Program at the Pennsylvania Bio Medical Technology Industry Forum, held at the Shire Conference Center in Chesterbrook, PA on February 12, 2013.

Dr. Aydin Tozeren and Team Members Receive a Graduate Assistance in Areas of National Need (GAANN) PhD Training Grant with Five Full Doctoral Fellowships

Dr. Aydin Tozeren, distinguished professor and director, Center for Integrated Bioinformatics in BIOMED, and his team received the full award for the Graduate Assistance in Areas of National Need (GAANN) PhD training grant with five full doctoral fellowships per year in the field of infectious disease bioinformatics.

Drs. Margaret Wheatley and Wan Shih Each Receive a Kimmel Cancer Center Consortium Pilot Project Competition Grant

Drs. Margaret Wheatley, John M. Reid Professor in BIOMED (PI), and Wan Shih, associate professor in BIOMED (PI), each received a \$20K Kimmel Cancer Center Consortium Pilot Project Competition grant for their projects titled “Optimized Regional-Gemcitabine Microbubble Therapy for Advanced Pancreatic Cancer” and “Development of Serum PSMA Assay User Piezoelectric Plate

Sensor,” respectively. The Kimmel Cancer Center at Thomas Jefferson University and Drexel University funded the pilot project competition.

Dr. Ming Xiao Publishes a Paper on Genome Mapping in the Journal Nature Biotechnology

Dr. Ming Xiao, research professor in BIOMED, published the paper titled “Genome Mapping on Nanochannel Arrays for Structural Variation Analysis and Sequence Assembly” in the July 15, 2012 online edition of the journal Nature Biotechnology. Dr. Xiao was also interviewed about his paper for the journal’s weekly In Sequence newsletter.

BIOMED Hosts the Inaugural Global Innovation Partnership (GIP) Forum, Brings Together Global Innovation Partners from China, Israel and Turkey

The inaugural Global Innovation Partnership (GIP) Forum brought together BIOMED global innovation partners from China, Israel, and Turkey, including economic development, technopark, business and investment representatives to meet their counterparts in Philadelphia and initiate partnerships for joint R&D and innovation. Day 1 topics included Philadelphia’s Innovation Ecosystem, with an overview of Drexel’s and Philadelphia’s Innovation ecosystem and Gateway to Philadelphia’s Innovation Ecosystem - Drexel University’s Innovation Neighborhood. Day 2 topics included Commercialization of Academic Innovation, focusing on the acceleration of academic innovation, with special emphasis on the conceptual and operational aspects of our Coulter-Drexel Translational Partnership program, as well as a discussion on ‘Partnerships to Commercialize Academic Innovation.’ President John Fry presented on Day 3 at the Innovation Talent and Technology Showcase an overview of ‘innovation assets’ at Drexel and in Philadelphia of interest to our innovation, economic development and investment partners. Days 4 and 5 provided time for individual meetings, lab tours, and visits to regional technology hubs. Meetings following the GIP Forum have resulted in agreements to pursue joint projects and sponsorship by investors.

Infrascanner Is Featured in a CNN Money Story on the US Military’s Miracle Scanner, the Hand-Held Device Used To Aid in the Detection of Traumatic Brain Injury

The Infrascanner, a hand-held, point-of-care device that will be used in emergency rooms to diagnose bleeding in traumatic brain injury and to improve the treatment of head injuries, was featured in a CNN Money article titled “The US Military’s Miracle Scanner.” Researchers at Drexel’s School of Biomedical Engineering, Science and Health Systems were part of a team that developed the technology for the Infrascanner, which was also featured in an episode of 6ABC’s TV show Grey’s Anatomy.

The School of Biomedical Engineering, Science and Health Systems would like to thank the following students for their valuable contributions in leading our student recruitment efforts and events this past year:

Graduating Senior Students

Avni Choski
Nick DiStasio
Margarette Hernandez
Genymphas Higgs
Renaë Judy
Kelsey Pagdon

All Other Students

Natassia Aravind
Dimitri Arhontoulis
Enis Banaj
Denariel Benn
Kimberly Chan
Joshua Cige
Eliza Fredette
John Grillo
Timothy Hoang
Evan Lynn
Desiree Martini
Renee Nester
Olivia Ngo
Averie Palovcak
Austin Sacks
Joshua Samuels
Jason Sedlak
Arpit Shah
Julie Speer
Mengdi Tao



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