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Hands-on innovation

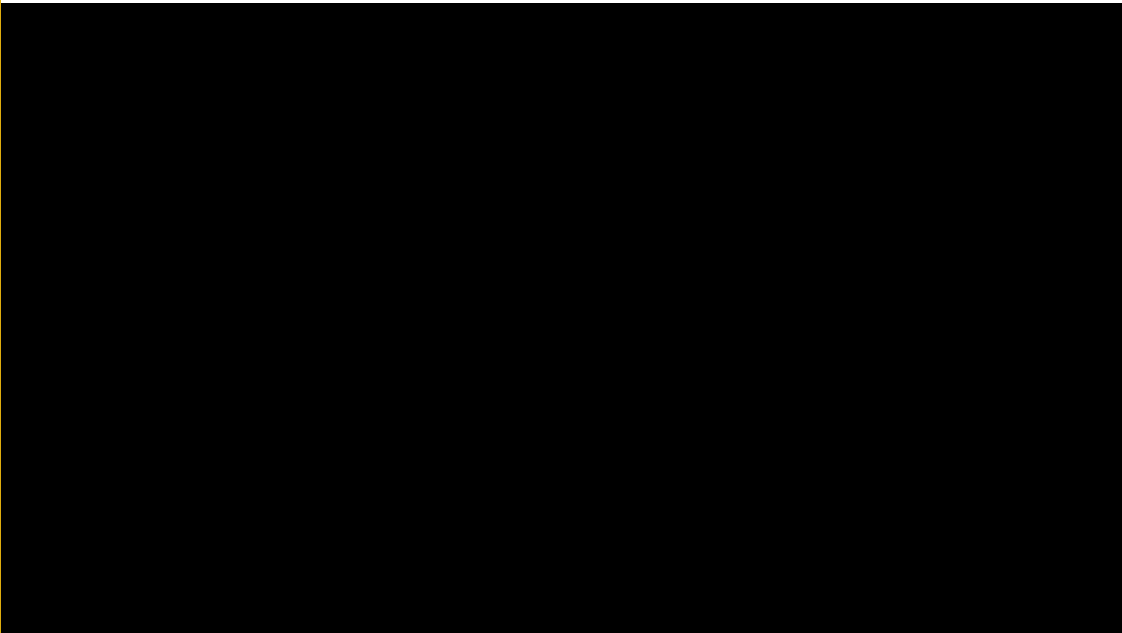
March 20, 2017

Chair of the [Department of Mechanical Engineering](#) and director of the Industrial Assessment Center (IAC) at IUPUI, Dr. Jie Chen is laser-focused on student success. According to Chen, the center's ultimate goal is that all of its graduates find good jobs. The hands-on experience gained at the IAC prepares IUPUI engineering students for a successful job search and a strong start to their careers. Funded by the U.S. Department of Energy, the IAC conducts on-site energy audits for small to medium-sized companies within 150 miles of campus. Students analyze electrical systems and water and gas usage and research energy-saving measures to provide evidence-based recommendations. On average, IAC assessments yield a 20 percent reduction in energy costs, which can save businesses hundreds of thousands of dollars. Abdul hadi Ayoub, a master's student in mechanical engineering, began working at the IAC his junior year at IUPUI and now serves as lead engineer. He will graduate with experience conducting more than 31 unique energy audits. Abdul plans to pursue a career as an energy engineer, work he considers very important because "it is helping to save our world."



Dr. Jie Chen

[\[Original article here.\]](#)



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Greenpower Student Electric Car Challenge to Help Kick Off Month of May

April 11, 2017

In partnership with the Indianapolis Motor Speedway (IMS), along with support from Siemens and SCCA, the GreenpowerUSA Foundation announces that middle and high school students will be racing during Month of May at the Racing Capital of the World. The Greenpower Electric Car Challenge at IMS will take place on Monday, May 1, 2017, helping to kick off an exciting month of action at the Speedway.

The Greenpower Electric Car Challenge is a project-based science, technology, engineering and mathematics (STEM) learning initiative for broad levels of education. This program leverages the excitement of motorsport to enhance teaching and learning of STEM-based subject matter and learning objectives.



Participating teams are invited to design, build and race a single-seat, student-driven electric car on the world-famous Grand Prix road circuit at IMS. Greenpower races consist of two 90-minute heats with the winning team having gone

the greatest distance in that time.

“Over 25 teams from across the United States and one International team from England have registered to race,” said Jacob Boyett, President of the GreenpowerUSA Foundation. “All participating student teams will have the incredible opportunity to challenge themselves and compete on the iconic Indy Grand Prix track.”

“Young people are the future of motorsports and high-tech industries, and IMS remains committed to programs that link both through the power of racing,” Indianapolis Motor Speedway President J. Douglas Boles said. “We support Greenpower’s goal of linking education, industry and community through inspirational engineering projects and believe hosting this event at IMS helps achieve that goal.”

With a shared vision for the future of youth STEM education through motorsport, GreenpowerUSA Foundation’s partner, the Sport Car Club of America (SCCA), will handle race management at the event. SCCA has developed a rulebook, operations manual, technical specifications and scrutineering guide for the competition.

“GreenpowerUSA is a fantastic way for students to learn about motorsports and having fun with cars. But beyond that, the Sports Car Club of America sees the program as an incredible tool for the enhancement of STEM skills in the United States,” explains Dan Helman, SCCA’s Board of Directors Vice Chairman. “SCCA’s volunteers offer their expertise and time freely to help with event administration, scrutineering, scoring, flagging and more as a means of giving back to the community and ensuring a healthy future for auto racing in this country.”

The School of Engineering and Technology, IUPUI is proud to be an official event sponsor of GreenpowerUSA. “In addition to participation from our motorsports and energy engineering programs, scholarship awards will be given to students pursuing programs in the School of Engineering and Technology at IUPUI for the top performing teams including sub-category awards, such as the best use of technology, said David J. Russomanno, Dean of the School of Engineering and Technology.

In addition to leadership, team-work, and critical thinking skills, the project delivers real-world, industry-relevant, and multi-disciplinary technical skills. Siemens PLM Software is the title sponsor and technology partner of Greenpower, providing design and analysis software to support many of the engineering and technology components of the program.

About GreenpowerUSA: The GreenpowerUSA Foundation was established in May 2014 in order to promote the teaching and learning of Science, Technology, Engineering and Mathematics (STEM)-based curriculum through a design, build, race competition of student-driven electric cars. The Foundation is a registered non-profit organization based in Huntsville, Alabama. For more information visit www.greenpowerusa.net.

About the SCCA: The Sports Car Club of America®, Inc., founded in 1944, is a 67,500-member motorsports organization that incorporates all facets of autocross, rally and road racing at both club and professional levels. With headquarters in Topeka, Kansas, the SCCA annually sanctions over 2,000 events through its 116 Regions and subsidiary divisions. To learn more, please visit www.scca.com.

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IUPUI motorsports team picks up pair of wins at SCCA event

April 19, 2017

By [John Schwarb](#)

Hands-on experience outside the classroom is great. But getting your hands on a couple of trophies in the process? That's even better.

Students in the motorsports engineering program in the School of Engineering and Technology at Indiana University-Purdue University Indianapolis are getting invaluable experience while competing in a Mazda Miata in Sports Car Club of America racing. Last weekend, the students took the car to Virginia International Raceway and came out with a pair of wins in the F Production class.

"It's fantastic -- fantastic for them, fantastic for the program," said Chris Finch, a lecturer in motorsports engineering who manages the SCCA program. "The satisfaction is seeing all of the students' hard work pay off."

The team includes seniors Andrew Bai, Bobby Chan, Andrew Jefferson, Joe



From left: Bobby Chan, Andrew Bai, Andrew Jefferson, Joe Legan, Juan Mendez, driver Bob Perona, Chris Finch, Matt Hunt. Chris Finch, IUPUI motorsports

Legan and Juan Mendez and freshman Matthew Hunt.

Success in motorsports rarely comes easily, and the IUPUI team has overcome plenty already this season. At the team's first event in March in New Orleans, engine failure in practice ended the weekend prematurely. Then, last Friday in practice, a minor off-track incident forced the team to stay late in the garage to make repairs.

But you'd never know any of that from the race results in Alton, Virginia. On Saturday, the No. 83 car started from the pole and won, also turning the fastest lap in the process. That meant another pole-position start on Sunday, and driver Bob Perona again steered the Miata to a win.

"They did an awesome job," Perona said [post-race Sunday](#). "It's an absolute rocket ship. I couldn't be prouder of these guys."

The team will race again next month at Blackhawk Farms Raceway in Wisconsin. With a few more solid outings, the IUPUI team will be in line to participate at the Indianapolis Motor Speedway in late September for the SCCA Runoffs, the organization's championship event.

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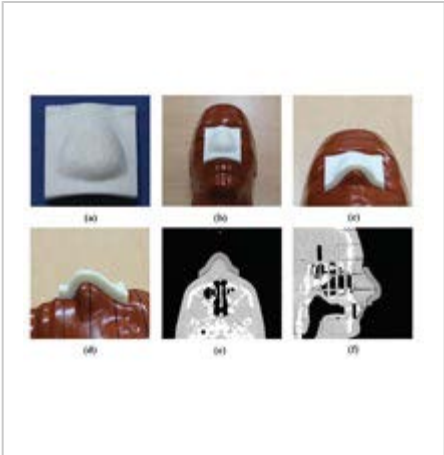
The future of cancer treatment is now

April 19, 2017

Using 3-D printing to treat cancer—sounds like something that oncologists will do 50 years from now, right? Not only is this currently possible, but a team from the IU Health Simon Cancer Center is working to make this hospital system the first in the United States to use it in a daily clinical setting.

IU Health Radiation Therapist, Brian Overshiner, RTT, along with faculty from the Mechanical Engineering Technology program within the Purdue School of Engineering and Technology, IUPUI, are a part of a team pursuing this innovative technology. “It’s a more effective, comfortable, completely customized treatment for each person. And patients won’t have to pay any more to get it,” Overshiner says.

The team is using 3-D printing to create customized boluses, or tissue-equivalent molds, for cancer patients with tumors close to their skin’s surface. Boluses create an even surface for radiation to hit. They centralize the radiation beam and evenly distribute the dose into one area, like water sinking into soil.



Currently, to treat a superficial tumor, like near a patient’s eye or nose, the team uses wet towels or SuperFlab (a skin-equivalent gel) as a bolus. Unfortunately, these don’t perfectly conform to the patient’s tumor, meaning the treatment can be inaccurate. When a patient receives multiple treatments each day, this adds up.

Besides the bolus issues, treating superficial tumors with radiation is problematic. Radiation works well on deep tumors, but if it’s somewhere such as the skin or the breast, it’s less effective.

“When radiation hits you, it deposits its energy deep within your body,” explains Physicist, DJ Vile, PhD. “If you have a deeper tumor, that’s a good thing, but when there’s tumor involvement on the skin, it’s very difficult to treat because of this effect.”

This is where the 3-D printing comes in. The Simon Cancer Center team has teamed up with Paul Yearling, PhD, from the Mechanical Engineering Technology program to use the lab housed within the Purdue School of Engineering and Technology, IUPUI (conveniently located across the street) to print molds. They send over a dosimetrist’s (a specialist in radiation therapy treatment planning) mock-up to the lab. Then, 40 hours later—voila—you’ve got a mold that perfectly conforms to a patient’s anatomy.

3-D printing isn’t limited to boluses—it can also improve other medical devices. Overshiner’s department CT scans children as well as adults using a standard-size head rest. With a 3-D printer, they can make something that teach patient. The team is also investigating brachytherapy, where radioactive material is inserted into the body with a special device.

What is the best part about this technology? If other departments, like plastic surgery, want to use 3-D printing, they only have to send Overshiner’s team a copy of their patient’s CT scan. Overshiner’s team is applying for a \$50,000 grant and looking for other funding opportunities to get a more advanced 3-D printer to decrease the time it takes to create molds. After it’s purchased, they hope to start using it to revolutionize cancer treatment.

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IUPUI Music Academy Announces 14th Annual Performathon at Indianapolis Artsgarden

April 13, 2017

The IUPUI Music Academy, a community music school operating within the Department of Music and Arts Technology at IUPUI, today announced its major fundraising event for the year, the 14th annual Performathon. Students and faculty from the academy will perform free of charge at this event, which will be held on Sunday, May 7, from 1:00 p.m. to 5:15 p.m. at the Artsgarden in downtown Indianapolis.

The annual Performathon provides the public with an opportunity to experience a 'musical marathon' showcasing the talent of local students of all ages, as well as a wide variety of solo and ensemble music from faculty of the Music Academy. Funds raised at the event will go directly to support student scholarships. Donations will be accepted onsite at the event, and interested parties also may make contributions to the IUPUI Music Academy directly.



Indianapolis Artsgarden

A non-profit educational organization, the IUPUI Music Academy provides high quality, professional music instruction to Indianapolis area residents of all ages and levels of ability. Great care and personal attention are given to each student, and music classes are provided in both private and group formats. Contributions directly support IUPUI Music Academy students:

\$300 provide weekly 30-minute lessons for one student for one semester

\$450 provide weekly 45-minute lessons for one student for one semester

\$1,640 provide weekly 60-minute lessons for one students for an entire year
(fall, spring, and summer session)

More information is available online at music.iupui.edu/academy.

The IUPUI Music Academy is a non-profit, educational organization whose mission, purpose, and primary activity pertain to arts education. As a community music school under the auspices of the Department of Music and Arts Technology at IUPUI, the academy is committed to providing high quality, professional music instruction to area residents. Conveniently located in the heart of Indianapolis, the IUPUI Music Academy currently enrolls over 400 students each year – from three years of age through adulthood. The academy is a member of the National Guild for Community Arts Education.

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Richard G. Lugar Center for Renewable Energy Hosts 10th Annual Spring Forum May 15

April 11, 2017

The views on energy between the 44th and 45th President of the United States could hardly be more divergent. Why is this such a difficult topic? We all need energy to run our economy. We all want a clean environment in which to live our lives. Few issues are so close to us and yet cause us to be so divided. Every state in our nation, indeed, every country on our planet, approaches this nexus of energy, environment and economy differently. How can we tease out the key issues? What are the primary drivers? Who has figured all this out, if anyone? And, how do we bring it all home to Indiana?

Indiana University-Purdue University Indianapolis' (IUPUI) Richard G. Lugar Center for Renewable Energy will address this complex confluence of connections at its 10th annual Spring Forum on campus May 15. The all-day conference, "Energy, Environment and Economics, the ThrEEEs," features 24 speakers and panelists who will explore aspects of this vital topic. This event will bring together industry leaders from business, government and academia to



provide a dynamic, multi-faceted exploration of key issues on how to power our economy sustainably.

Professor Wally Tyner of Purdue University will frame the issues, and Professor Gabriel Filippelli of IUPUI will review the economic impact of a polluted environment. Five panels, each consisting of four subject matter experts, will address topics such as: “Policies and Technologies for Demand Reduction & Alternate Generation;” “Energy Supply Economics and Energy Market Analysis;” and “Trends and Outlooks, Emerging Markets, Opportunities, and Lessons Learned.” Audience participation is welcome and encouraged as this raises mutual awareness, broadens perspectives, and emphasizes the goal of a delicate balance.

“This year’s topic is very exciting to me as it brings together such a wide range of interests and considerations,” said Peter J. Schubert, director of the Lugar Center. “There is so much upside potential if we can all work forward together to the benefit of all Hoosiers.”

Breakfast and networking will take place at 8 a.m., followed by the conference from 9 a.m. to 5 p.m., at the IUPUI Campus Center, Event Room 450, 420 University Boulevard, Indianapolis. To register, visit www.lugarenergycenter.org and click “Spring Forum” on the left navigation bar by May 8. The cost is \$75 for the public, and \$100 for attorneys and engineers seeking CLI and continuing education credits. Registration includes breakfast, lunch, afternoon dessert and parking in the adjacent Vermont Street Garage. Students can request a discount code at lcre@iupui.edu.

About the Richard G. Lugar Center for Renewable Energy:

The Richard G. Lugar Center for Renewable Energy was established to address the urgent societal needs for clean, affordable and renewable energy sources, improve the nation’s energy security and reduce the negative impacts of climate change. Its primary mission is to promote research excellence in the area of renewable energy through collaborative efforts among faculty in the disciplines of engineering, chemistry, physics, biology, public policy and environmental affairs. It will promote renewable energy applications through teaching, learning, civic engagement and synergistic partnerships with industry, government labs and local communities.

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IUPUI's Minority Engineering Advancement Program Finds Partner to Advance Goals about STEM Studies and Careers

March 30, 2017

The School of Engineering and Technology at Indiana University-Purdue University Indianapolis has announced that its Minority Engineering Advancement Program (MEAP) and the Minority Engineering Program of Indianapolis (MEPI) have agreed to work together to increase under-represented students' exposure and engagement in STEM-related studies and professions.

"We are delighted to partner with the Minority Engineering Program of Indianapolis as we share mutual interests in this endeavor," explained David J. Russomanno, dean of IUPUI's School of Engineering and Technology. "We will leverage our complementary strengths and resources to better serve and benefit students through both industry experience and exposure to a research academic institution."



(Image courtesy of MEPI)

MEPI provides students with a rich, industry-led applied engineering and science experience while MEAP provides

students with an applied engineering, science and technical experience from an academic perspective. MEPI engages students from autumn to spring and MEAP works with students during the summer. With the programs having similar goals and missions, the new partnership will provide a year-round, holistic experience for students. This includes access to industry and academic experts, laboratories, and technical and research resources.

The programs plan to coordinate activities that complement each program and are focused on increasing student enrichment. These will include the opportunity to enroll in both programs, and students meeting requirements will have enrollment and scholarship opportunities at IUPUI. The School will host an open house for participants in the programs each year. The programs plan to share mentoring, counseling and facilitator resources when appropriate as well as metrics for continuous program improvements. Relevant fund raising opportunities to support joint activities also will be explored.

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IUPUI Engineering Summer Camps Encourage Girls and Minority Students to Explore STEM Careers

March 20, 2017

INDIANAPOLIS -- The School of Engineering and Technology at Indiana University-Purdue University Indianapolis has announced that registration is open for summer camps. Applications are being accepted for [POWER Camp](#) and [WinIT Camp](#) – week-long residential camps for high school females as well as for the [Minority Engineering Advancement Program](#) (MEAP).

The Preparing Outstanding Women for Engineering Roles (POWER) Summer Camp, July 16-22, is designed for young women interested in learning more about what engineers do and determining whether it might be a career path for them. The camp gives students the opportunity to explore engineering through hands-on, learn-by-doing experiences. Guided by current engineering students, campers will conduct experiments, innovate, make cool stuff, take things apart and then put them back together again. Campers will have opportunities to meet a diverse group of professional women engineers and young college women inspiring to be engineers.



POWER camp 2016

The Women in Technology (WinIT) Camp, July 23-29, is designed for high school females interested in a technology career. With two of the top five jobs of the future in Indiana focused on IT, it's a career worth exploring! Campers learn about current technologies, and meet with college students, faculty and female IT professionals.

MEAP is designed for minority students who are talented in mathematics and science and introduces them to exciting educational opportunities in engineering and technology related fields. Workshop 1, June 19-23, is for high school students in grades 9, 10 and 11. Workshop 2, June 26-30, is designed for 7th and 8th grade students. Register students in the grade they currently are in at the time of application; all students will have completed these grades by the summer camp dates. Parents will find more information, as well as eligibility guidelines and registration forms, at <http://et.engr.iupui.edu/infofor/community/summer-camps/meap.php>.

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IUPUI Music and Arts Technology Faculty Jordan Munson debuts interactive sound installation

April 12, 2017

Beneath Your Feet, I Will is an interactive sound installation housed within the Garfield Park Conservatory (2505 Conservatory Dr. Indianapolis, IN 46203). Inspired by the location and the work of sound artist Max Neuhaus, musician and sound artist Jordan Munson created a 4-channel generative soundscape to accentuate the meditative nature of the conservatory's environment.

The work interacts with visitors so slowly change the sonic environment. Munson states, "Much like Neuhaus, the intent of the work is to create an extraordinary and surreal experience out of the ordinary and real, albeit awe-inspiring, conservatory space. This is achieved through a subtle enhancement of the natural sonic environment without framing the experience for the audience."

The work was commissioned by Big Car Collaborative as a part of Listen: A Found Sound Exhibition. This exhibit brings together Indianapolis artists and



Jordan Munson, Senior Lecturer of
Music and Arts Technology

musicians to create unique sound installations for local businesses and landmarks throughout the Garfield Park neighborhood. More information can be found at <https://www.facebook.com/events/150172075507452/>.

Munson's installation will be on display throughout the month of April during Conservatory business hours. An example of the work can be seen here: <https://vimeo.com/211764838>.

About the Artist

Jordan Munson is a sound and video artist whose work explores memory, ephemera, and our relationship to technology. Often utilizing found media and experimental instruments, his compositions employ layered textures to build subtly changing landscapes. Munson has performed alongside artists such as Matmos, R. Luke DuBois, Bora Yoon, and Nico Muhly. With collaborators Scott Deal and Michael Drews, he is a member of the electroacoustic ensemble Big Robot.

Institutions such as the University of Kentucky, the University of Alaska at Fairbanks, and the University of California at San Diego (UCSD) have premiered his multimedia works. Munson's video art has shown worldwide, including at the Musicacoustica Festival in Beijing, the New World Center, and The Phillips Collection.

Munson is a Lecturer in Music and Arts Technology at IUPUI, as well as an associate of the Donald Tavel Arts and Technology Research Center. He holds degrees from Indiana University in Indianapolis (M.S.M.T.) and the University of Kentucky (B.M.). Excerpts of his work can be found at www.jordanmunson.com.

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Ang awarded Distinguished Alumna Award with the School of Engineering and Technology, IUPUI

April 10, 2017

The School of Engineering and Technology, IUPUI held its 43rd Bepko Awards Ceremony in Indianapolis on Friday, April 7th.

The Bepko Awards Ceremony recognizes outstanding student scholarship award recipients from all of the departments, as well a Distinguished Alumnus. The Distinguished Alumnus/Alumna Award was established in 1983. This award is presented by the School and the Alumni Association to a graduate of the School of Engineering and Technology, IUPUI in recognition of outstanding achievement in engineering or technology related fields, in the practice of their chosen profession, or in service to the community.

This year the School of Engineering and Technology was proud to present Chia Yee Ang with the 2017 Distinguished Alumni Award.



Chia Yee Ang

Originally from Malaysia, Chia Yee Ang joined Engineering and Technology in 1998 as a student in IUPUI's program with Tenaga Nasional University. She graduated with a Bachelor of Science in Mechanical Engineering in 2000, completed her Master of Science in Mechanical Engineering degree in 2004, and followed that with an Executive MBA focused on Engineering Management from Purdue University Krannert School of Management in 2007.

Ang has been a contributor to the school as a student and benefactor. After graduation, she and her husband, Mark, a mechanical engineering graduate from Purdue University as well, established their own award recognizing outstanding leaders and scholars in the Department of Mechanical Engineering. Ang also served 10 years as a member of the School of Engineering and Technology Alumni Association Board of Directors. She has always been a strong advocate for women in science and technology and it is demonstrated through her volunteer work at Girls Inc., Girls Scouts and IUPUI Summer Power Camps.

After graduation Ang began her career as a problem resolution engineer at Carrier Corporation progressing to R&D Program Manager at Hologic Inc., with a specialized focus on product research, design and development. She launched multiple products at both companies and was awarded two design patents. Following a short-term gig as Senior Compliance Analyst at Safis Solutions, LLC. Ang was then employed as Associate Consultant Engineer at Eli Lilly and Company where she created multiple novel packaging designs for product launches. To further expand her skills and experience, she is currently in a marketing development program at Lilly USA.

Summing up, Jie Chen, Chair and Professor of Mechanical Engineering said it best in his nomination of ChiaYee Ang, "It is clear that our Mechanical Engineering program benefited her career development and in return she has been willingly and continuously supporting our program. She deserves this recognition."

Congratulations, Chia Yee Ang!

[Click here](#) to view photos from the 43rd Annual Bepko Awards Ceremony.

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