INSIDE EAPS NEWSLETTER

Read all of the latest news in our department magazine, Inside EAPS, including Antarctica research, public outreach, and clean energy for hybrid vehicles. The latest version of Inside EAPS newsletter can be found here: https://goo.gl/47U9VP

BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!

Facebook
Twitter
Department Magazine
Website News

EAPS COLLOQUIA

Vince Agard
Massachusetts Institute of Technology (MIT)
Thursday, Sept. 7, 2017
3:30 PM
HAMP 1252

EAPS FACULTY MEETINGS

September 19, 2017
October 31, 2017
November 28, 2017
3:00 PM
HAMP 3201

CoS FALL FACULTY MEETINGS

September 26, 2017 (virtual)
November 28, 2017
3:30 PM
LWSN 1142

EAPS PRIMARY COMMITTEE MEETINGS

September 12, 2017
October 17, 2017
3:00 PM
HAMP 3201

BLACK AND GOLDEN JUBILEE
September 21-23, 2017
CONGRATULATIONS
LISA WELP & STEVEN SMITH

Congratulations to Dr. Lisa Welp and Mr. Steven Smith for receiving a grant from the Halliburton Foundation. The grant, Helping Teachers and Hosting the Midwest Student Research Symposium, will train teachers in an environmental education program, help students collaborate on science investigations and engineering projects, and present their projects in one of the GLOBE student research symposiums.

TERRY WEST VISITS FESTUS, MO TO VIEW SOLAR ECLIPSE

From August 19 - 22, 2017, Terry West visited Festus, MO, 30 miles south of St. Louis, to view the total solar eclipse. The solar episode lasted nearly three hours, whereas totality persisted for 2 minutes of total darkness. The sky’s horizon for 360 degrees lighted up with a pink glow yielding a spectacular view of the sky. It was truly a memorable experience. Dr. West also visited the abandoned sandstone, adit, room and pillar mine, in the St. Peter Sandstone mined out some years ago by the Pittsburgh Plate Glass Company. He also viewed the adjacent, active surface mine where sand used for horizontal hydro-fracking is being excavated. Hillsides are disappearing in the process as the sandstone is removed in great volumes.

EAPS FACULTY/STAFF RESOURCE FUND

Guidelines:

The EAPS Faculty and Staff Resource Fund provides faculty and full-time, permanent staff with a simple, open, and transparent way to request resources they need to be productive in their work. This is not intended to replace other sources (e.g., grants, discretionary accounts, and start-up, competitive programs on campus, and usual supplies and expenses), rather it is to meet occasional needs that are important for individual productivity and advancement in cases where these other sources are not available to an individual. Examples include professional development course tuition, office needs, and professional conferences.

Procedure:

Applications to the fund should be sent via email (as a pdf) to the Assistant Department Head. Requests must include the following items and not exceed one page.

- applicants name, position title, email address
- a detailed, one paragraph description of what is being requested
- a short explanation of how this will help the individual be productive in their work
- amount requested (this program will accept requests between $200 and $2,000)
- time constraints on what is being requested (e.g., a deadline for registration)

Request deadline is the 20th of each month. Decisions will be made by the 5th of the following month. All requests will be reviewed by a group including the Assistant Department Head, the Business Manager, and at least two members of the EAPS Executive Committee.

EAPS TECH DIGEST

Linux lab computers have been converted from Red Hat to Ubuntu. Please let Tomas Ratkus or Frank Bakhit know if you encounter any issues. If you have existing Red Hat PC, we may have missed, please contact Frank or Tom to arrange a time to upgrade. Please let Science IT know if you are still having trouble sending e-mail from home without having to use VPN. New PAL/Eduroam wireless access points have been installed along Northwestern.

Red Hat contract has been extended until early August 2018. This is to give campus time to transition to another Linux distribution. The plan is to be off of Red Hat by then.

If people are experiencing trouble sending e-mail from home or even while on campus, sender reputation based on subnet or even specific hosts
IP on Purdue’s campus networks can be looked up here: 
https://goo.gl/wXRZpX

RCAC updated their /scratch policy. Purging will happen after 60 days of inactivity, as opposed to 90 in the past. This means that if someone has large amount of research input or output data stored in their scratch space, and hasn’t accessed it in two months, it will be irrecoverably deleted. This is fairly standard, but good to be aware of. 
https://www.rcac.purdue.edu/news/992

Some people may have noticed licensing issues with ENVI/IDL. This was due to ENVI being acquired by Harris Geospatial (previously owned by Exelis). License server manager’s claim that issues are resolved, but if you encounter issues, please let Frank or I know. The only ironclad solution is to use owa.purdue.edu, at least until ITaP’s messaging team fixes the IronPort issues.

ExxonMobil
OIL COMPANY INTERVIEW DATES:

ExxonMobil - September 28-29

Watch for additional information as it becomes available.

DOE OFFICE OF SCIENCE ACCEPTING APPLICATIONS FOR SCGSR

The DOE Office of Science just announced that they are accepting applications for the SCGSR program.
https://science.energy.gov/wdts/scgsr/

This program provides a great opportunity for PhD students to collaborate with research staff at a DOE lab. If you have PhD students who are interested in participating they will need to complete the application and identify a lab in which they would like to work.

2017 ESE SYMPOSIUM
COLLABORATION WITH DAWN OR DOOM

Debate Competition

This year’s ESE Symposium will feature a Debate Competition with topics related to climate change. In partnership with Purdue’s Petticrew Debate Forum, teams of two will defend and rebuke key topics on climate change related to economics, conflicts, alternative energy, and climate adaptation. The first 16 teams to respond will get to compete in the preliminary rounds held on Tuesday, September 19th in Krannert Hall from 6-9 pm. The final four teams will compete the following Tuesday, September 26th from 1:30-3:30 in Stewart Center 214 ABCD. The winning team will win a cash prize of $300.

3 Minute Thesis Competition

The ESE Symposium Undergraduate, Master’s, and Ph.D. research students are invited to take part in the 3MT competition on Tuesday, September 26, 2017. The subject of your presentation does NOT have to be directly related to the ESE Symposium theme.

Please email ese@purdue.edu if you have questions.

PURDUE LIBRARIES SEMINARS

The Purdue Libraries has worked with the Office of Undergraduate to offer a series of seminars that address many aspects of the student research experience. The biweekly sessions will be held in WALC 2007 from 6:30-7:30pm starting September 5th. In the first session, student researchers will discuss their experiences and answer questions.

http://www.eaps.purdue.edu/
Apply to R&D Summer Intern Program at Dow AgroSciences. R&D internships are available in chemistry, biology, and computer science related disciplines, including, but not limited to, biochemistry, molecular biology, cell biology, microbiology, plant breeding, organic chemistry, analytical chemistry, physical chemistry, surface chemistry, engineering (chemical, biological, material, or optical) and informatics (bio and chem). Our laboratory-based Research and Development internships are located at our global headquarters in Indianapolis, Indiana.

This is a paid internship; salaries are determined by the student’s year in school. Subsidized housing is available for qualified students. Eligible students will be pursuing a Bachelors or Master's degree from a U.S. based college or university with proper U.S. work authorization, or the ability to obtain work authorization through their university.


Applications will be accepted between August 15 and November 1, 2017 for the 2018 program.

Please see attached flier for more details.

FALL GK-12 PROGRAM INFORMATION FOR GRADS AND POSTDOCS

GK-12: Engaging graduate students and post-docs in integrating and communicating their research in middle school classrooms "participating in GK12 was the single best decision I have made in my professional life and it will forever influence my career path in the future" (Purdue Grad Student) GK-12 is an exciting program organized through the Graduate School that gives Masters, Ph.D., and Post-doctoral students a mentored, in-depth opportunity to share their research with K-12 students and teachers in a local middle school. This provides graduate and Post-doctoral students with enhanced skills and experience in outreach, teaching, and communication of their research with diverse audiences. Past participants have found that it also makes them more competitive for academic and professional jobs.

After an initial training session, participants in the GK-12 program will learn from and assist teachers in a local middle school for approximately one day a week for 10 weeks, and by the end of the semester they will develop and teach a lesson based on their interests and research. This is an extension of a very successful externally-funded program that ran for several years, and has now been successfully transitioned to a graduate school program. While this program does not provide funding directly to the student or post doc, some modest funding is available for expenses associated with materials for in-class activities. Students may elect to register for 2 credit hours for their involvement, or simply do this program as a voluntary activity, and the program is open to all Masters, Ph.D., and Post-Doc students at Purdue (any and all disciplines). For more information, please check out the two-page brochure that outlines the program for this coming semester at https://goo.gl/Ukb1x1.

For any additional questions or information please contact the program coordinator, Mohan Yang, at yang1178@purdue.edu. Jon Harbor, GK-12 Program Director.

CoS STAFF PROFESSIONAL DEVELOPMENT FUND

It is time to request nominations for the Spring 2018 Staff Professional Development Fund. These applications should be for professional development opportunities that will take place during January through May. To apply, please completed the attached application and return it to me by Monday, October 2. A committee of fellow CoS staff members will then meet to evaluate the applications and make the final funding decisions.

http://www.eaps.purdue.edu/
In addition to the application, you will find the programs guidelines attached. Please remember that individuals are only eligible for one award per calendar year and be sure to complete the application fully - including a breakdown of the expenses being requested.

Please contact Angie Teel if you have any questions.

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**Ersi Development Center at Purdue**

Purdue Libraries is now hosting the Ersi Development Center (EDC) program for GIS development. This is an invitation-only opportunity to provide special access to Ersi's training and support application platform. According to last year’s EDC survey, only 25 universities have established this partnership with Ersi. As part of the EDC program, Purdue Libraries will sponsor the EDC GIS Development Contest, in which students participating in the EDC program will have the opportunity to compete for Ersi “Student of the Year” Award. More information about the GIS Development Contest will be forthcoming. Stay tuned!

Here is the news release about Purdue EDC program:  

Here is the link to EDC homepage:  
[https://www.lib.purdue.edu/gis/edc](https://www.lib.purdue.edu/gis/edc)

Please feel free to contact: Nicole Kong, Ph.D. Assistant Professor, GIS Specialist  
Purdue University Libraries  
(765)496-9474  
[https://www.lib.purdue.edu/gis](https://www.lib.purdue.edu/gis)

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**Discovery Park Conference on Convergence and the Future of Research**

October 6, 2017  
1:00-6:00 PM  
Please visit: [https://goo.gl/JGf7BA](https://goo.gl/JGf7BA)

See attached flier for more details.

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**Reminder: Reportable Outside Activities and Conflict of Interest Report**

Faculty and staff are reminded that they are required to report outside activities and financial conflicts of interest in accordance with University policy. The policies on Conflicts of Commitment and Reportable Outside Activities (III.B.1) and Individual Financial Conflicts of Interest (III.B.2) are available on the University Policies website. All exempt faculty and staff, whether part-time or full-time, are required to report and obtain approval before they engage in any Reportable Outside Activities. In some situations, members of the clerical and service staff must also report outside activities. At the beginning of each fiscal year, employees also must report all activities in which they continue to participate, even if previous approval was granted. If an individual completed a form for activities in the 2016-17 fiscal year, that information will prepopulate the 2017-18 disclosure form and may be revised as necessary.

For more information, please visit:  
IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well.

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at http://www.eaps.purdue.edu/news/newsletters.html and click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Fallon McQuem (fmcquem@purdue.edu) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit http://www.eaps.purdue.edu/resources/information_technology/index.htm

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://www.EAPS.purdue.edu/events-calendar.html
<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Institution</th>
<th>Host</th>
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<tbody>
<tr>
<td>Aug. 22</td>
<td>Ki-Hong Min</td>
<td>Kyungpook National University</td>
<td>Sun</td>
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<td></td>
<td><em>Tuesday, 4:00PM, Room 2201/HAMP</em></td>
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<td>Aug. 24</td>
<td>Roland Stull</td>
<td>University of British Columbia</td>
<td>Tanamachi</td>
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<td>Aug. 31</td>
<td>Tim Cronin</td>
<td>MIT</td>
<td>Chavas</td>
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<td>Sept. 7</td>
<td>Vince Agard</td>
<td>MIT</td>
<td>Ridgway</td>
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<td>Sept. 14</td>
<td>Amir Allan</td>
<td>University of Utah</td>
<td>Ridgway</td>
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<tr>
<td>Sept. 21</td>
<td>Ed Harvey, U.S. National Park Service, Water Resources Division</td>
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<td>Frisbee</td>
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<td><em>Held in WALC, Room 2087</em></td>
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<td>Sept. 28</td>
<td>Shad O’Neel</td>
<td>USGS</td>
<td>Elliott</td>
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<td>Oct. 5</td>
<td>Devon Orme</td>
<td>University of Nevada, Las Vegas</td>
<td>Ridgway</td>
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<td>Oct. 12</td>
<td>Cliff Johnston</td>
<td>Purdue University</td>
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<tr>
<td>Oct. 19</td>
<td>Chanh Kieu</td>
<td>Indiana University</td>
<td>Chavas</td>
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<td>Oct. 24</td>
<td>Zhou Lyu, PhD candidate</td>
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<td>Zhuang</td>
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<td><em>Tuesday, 4:00PM, Room 2201/HAMP</em></td>
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<td>Oct. 26</td>
<td>Julie Castillo-Rogetz</td>
<td>Jet Propulsion Laboratory, NASA</td>
<td>Minton</td>
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<td>Oct. 31</td>
<td>Tong Yu, PhD candidate</td>
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<td>Zhuang</td>
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<td><em>Tuesday, 4:00PM, Room 2201/HAMP</em></td>
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<td>Nov. 2</td>
<td>Scott Collis</td>
<td>Argonne National Laboratory</td>
<td>Tanamachi</td>
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<tr>
<td>Nov. 9</td>
<td>Jack Kaye</td>
<td>Earth Science Division, NASA</td>
<td>Zhuang</td>
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<tr>
<td>Nov. 16</td>
<td>Xiangdong Zhang</td>
<td>University of Alaska, Fairbanks</td>
<td>Zhuang</td>
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<tr>
<td>Nov. 30</td>
<td>Rossella Guerrieri</td>
<td>CREA, Univ. Autònoma de Barcelona</td>
<td>Michalski</td>
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<tr>
<td>Dec. 7</td>
<td>Sarah Feakins</td>
<td>University of Southern California</td>
<td>Welp/Huber</td>
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With hazards including tornadoes, hail, and wind, severe convective storms can present a significant risk to life and property in continental regions. By examining convective available potential energy (CAPE) in continental environments, this work brings a thermodynamic perspective to the emerging field of severe local storms and climate. While CAPE presents a constraint on the severity of convection everywhere on Earth, continental convection is unique in that it depends on potential energy built and stored over time in conditionally unstable profiles.

To establish a theoretical constraint on CAPE maxima under this time-dependent continental paradigm, we first use reanalysis data to identify the main pathway of CAPE generation during North American severe storm events. The results of a Lagrangian CAPE tendency budget analysis indicate that CAPE buildup is driven primarily by the diabatic heating of the surface boundary layer via fluxes of heat and moisture from the land surface. Next, we idealize this process by creating a one-dimensional model to describe the evolution of a conditionally unstable column in which a moist land surface gives rise to an entropically rich boundary layer beneath a dry adiabatic layer. The transient maximum of CAPE in this model is found to scale with the Clausius-Clapeyron relation as a function of surface temperature. Additionally, CAPE is shown to increase with increasing surface moisture and near-surface wind speed.

What are the Climatic Constraints on Continental Peak CAPE?

Vince Agard
Massachusetts Institute of Technology

Thursday, September 7, 2017
3:30 p.m.
Room 1252 HAMP

Refreshments at 3:00 pm
Room 2201/HAMP
Job Description

Our Research and Development Summer Intern program provides an opportunity for students to work closely with senior scientists in order to improve technical skills while being given a developmental opportunity in an industrial setting. It is desirable that the intern have past practical experience in handling chemicals, operating laboratory equipment, generating and manipulating data, as well as computer database and word-processing skills. Interns are encouraged to be creative and take initiative, where appropriate, and will be granted significant latitude for discretionary decisions and independence of action within guidelines established by their supervisor. Interns are expected to always operate in a safe and efficient manner.

Qualified interns should be pursuing a BS or MS degree in biology, chemistry, informatics, or closely related majors. Interns will be part of a team responsible for the development of novel agricultural products. Strong interpersonal, communication, organizational, teamwork and time management skills are essential. Foreign students are encouraged to apply, however, they MUST be attending a U.S. university or college as the school is the sponsor for them to work in the U.S.

Contact Information

To apply for an R&D internship at Dow AgroSciences, see the link below. Applications will be accepted between August 15 and November 1, 2017 for the 2018 summer program. Questions: FELNTRN@dow.com Do not send resumes to this address.
Well-positioned for future growth.

You’re working on your education. Now it’s time to work on your career. An internship with Dow AgroSciences lets you learn from a global leader through real-world, hands-on experience, focused on your interests, with targeted training from experts in the field.

Learn from our team.

Q: Will I be involved in activities outside of my research project?
A: Most definitely! You will participate in group meetings and have opportunities to attend various other meetings and events. Safety is a top priority, so a safety orientation and monthly safety meetings are on the agenda. You may also have the opportunity to participate in roundtable discussions with company group leaders, executives, and/or fellow scientists to get a feel for what Dow AgroSciences is all about. We also plan social gatherings, based upon the interest of the interns.

Q: What can I expect?
A: The R&D intern program provides an opportunity for students to work closely with a senior scientist in order to improve technical skills while being given a developmental opportunity in an industrial setting.

You will be required to present a poster to an audience of R&D employees summarizing the research you conducted during your internship. In addition, since you will be part of a research team, you may be asked to present at a team/group meeting. These are great opportunities to polish your public speaking skills in a non-threatening environment.

Our interns will be expected to work independently, as well as in a team environment, for maximum productivity. Throughout the 12 weeks, participants will be given coaching and feedback to learn, grow and develop expertise. This program can be a tremendous opportunity in a college student’s learning journey!

Q: How do I apply?
We look forward to hearing from you!
In 2012, the University created a performance evaluation policy for staff which included a focus on capturing the professional development activities of staff throughout the year. The College of Science firmly believes that participation in professional development provides long lasting benefits to both the individual staff member and their department. As such, the College desires to support these activities.

**College of Science Professional Development Philosophy:**

- Professional development participation should be available to all full- or part-time, permanent staff—clerical, service, administrative/professional and managerial/professional.
- Professional development should focus on developing skills that will prepare staff to advance at Purdue or to perform their current duties more effectively.
- All supervisors are strongly encouraged to allow appropriate amounts of time for each staff person throughout the year to attend trainings that will help them accomplish their professional development goals. Approval for participation in such activities should be based on the business needs of each area.

**College of Science Professional Development Fund:**

In order to support staff professional development activities, the College has created a Professional Development Fund to financially assist with participation in trainings that involve fees or the purchase of training materials.

**Professional Development Fund Guidelines:**

- Professional Development funds are to be used to support College of Science staff’s participation in activities that will assist them in developing skills that will prepare staff to advance at Purdue or to perform their current duties more effectively.
- Award applications will be requested three times annually with approximately 10 awards per call. Funds requested may be used to defray costs associated with attending professional meetings or seminars, to participate in workshops, or to enroll in professional-oriented courses related to employment responsibilities. The funds must be utilized within two application cycles (Spring awards utilized by the end of Fall, etc.).
- Applications for amounts of up to $1000 will be accepted.
- Individuals are eligible for one award per calendar year.

**Application Deadlines:**

- Spring Application Call – application due by first Monday in October; decisions made by November 30
- Summer Application Call – application due by first Monday in March; decisions made by April 30
- Fall Application Call – application due by first Monday in June; decisions made by July 31
College of Science  
Staff Professional Development Fund Application

Name: ____________________________________________________________

Position: __________________________________________________________

Department: ________________________________________________________

Phone: __________ E-mail: ________________________________

1. Describe the professional development activity for which funds are requested. Please be specific in how you plan to use the funds requested.

2. What is the amount of funding being requested for this activity? Please breakdown the amount (ex. hotel, airfare, conference registration, etc.).

3. Indicate how participation in this proposed activity will contribute to your professional development. Please attach additional pages if necessary.

__________________________________ ________________________________
Applicant’s Signature Supervisor’s Signature

_________________________________
Department Head’s Signature
College of Science  
Staff Professional Development Fund Application

Name: ________________________________________________

Position: ________________________________________________

Department: ________________________________________________

Phone: _________________ E-mail: _____________________________

1. Describe the professional development activity for which funds are requested. Please be specific in how you plan to use the funds requested.

2. What is the amount of funding being requested for this activity? Please breakdown the amount (ex. hotel, airfare, conference registration, etc.).

3. Indicate how participation in this proposed activity will contribute to your professional development. Please attach additional pages if necessary.

__________________________________   ______________________________
Applicant’s Signature      Supervisor’s Signature

__________________________________
Department Head’s Signature
DAWN OR DOOM '17

EMERGING TECHNOLOGY - RISKS AND REWARDS
TWO-DAY CONFERENCE, SEP. 26 & 27
FREE AND OPEN TO THE PUBLIC, EVERYONE WELCOME
Register now to reserve seating and to receive event updates at Purdue.edu/dawnordoom

Purdue University

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Innovator Sponsors

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CONVOS
Discovery Park Conference on Convergence and the Future of Research

OCTOBER 6, 2017 • 1-6 P.M.
THE VOSS TALKS
Purdue alumna Janice Voss was a pioneer in space travel for women. Logging five flights, she spent a total of 49 days in space and traveled 18.8 million miles in 779 Earth orbits. Until her death in 2012, Voss encouraged us to reach for the stars. Because her story has inspired so many, we’ve named our TED-style talks in her memory.

PRECISION AGRICULTURE: THE FUTURE OF AGRICULTURE
Karen Plaut
Interim Dean, College of Agriculture
Purdue University

CONNECTED AND AUTONOMOUS VEHICLES: THE FUTURE OF MOBILITY
Scott Corwin
Managing Director, Future of Mobility Leader
Deloitte Consulting, LLP

THE CONTINUOUS TECHNOLOGY OFFSET: THE FUTURE OF DEFENSE
Speaker TBD

BIONANOTECHNOLOGY: THE FUTURE OF HEALTHCARE
Rashid Bashir
Grainger Distinguished Chair in Engineering and Head, Department of Bioengineering
University of Illinois at Urbana-Champaign; and Executive Associate Dean, Carle Illinois College of Medicine

BIG DATA AND QUANTUM COMPUTING: THE FUTURE OF COMPUTING
Jason Matheny
Director, Intelligence Advanced Research Projects Activity/MS2 Building
Office of the Director of National Intelligence

Discovery Park Conference on Convergence and the Future of Research

LOCATION
Burton D. Morgan Center for Entrepreneurship (BDMCE)

PARKING
Event parking is available in the large lot across from Nimitz Drive; limited parking is available behind the Birck Nanotechnology Center.

SCHEDULE
1 p.m. OPENING REMARKS
Tomás Diáz de la Rubia, Chief Scientist and Executive Director, Discovery Park

1:10 p.m. VOSS TALKS

3:50 p.m. BREAK

4 p.m. FACULTY PANEL
Discovery Park faculty

5 p.m. RECEPTION & CLOSING REMARKS

REGISTRATION
Registration is not required but recommended. Please visit www.purdue.edu/discoverypark/convergence.
CURIOUS ABOUT UNDERGRADUATE RESEARCH & CREATIVE ENDEAVORS?

Join us for any of these sessions to learn about many aspects of the student research experience!

- **September 5**  What to expect from undergraduate research and creative endeavors
- **September 19**  What research resources the Purdue Libraries can offer
- **October 3**    How to be successful when attending a research conference
- **October 17**   Tips for marketing yourself: How to answer “So what?”
- **October 31**   What are different types of research?
- **November 14**  How to establish the credibility of an academic journal
- **November 28**  Submitting a research manuscript: An editor’s perspective
- **December 5**   Research manuscript hands-on workshop: Bring your work-in-process

All sessions held in WALC 2007 from 6:30-7:30 p.m.

SPONSORED BY:

[OUR OFFICE OF UNDERGRADUATE RESEARCH]

[PURDUE UNIVERSITY LIBRARIES]