

March 24, 2014

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## EAPS MEETINGS

**Tuesday, March 25, 3:00-5:00 pm, HAMP 3201**  
EAPS Faculty Meeting

## EAPS SEMINARS

**Thursday, March 27, 3:30 pm, HAMP 1252**  
**Professor Sarah Aciego**, University of Michigan,  
Evolution of Glacial Meltwater Drainage Systems  
Revealed Using a Multi-Isotope Approach

## EAPS SPECIAL SEMINARS

**Monday, March 24, 1:30 pm., HAMP 2201**  
**Francesca Hopkins** (University of California, Irvine)  
Fingerprints of Human Impact: Isotopic Insight into Carbon  
Emissions from Soils to Cities  
<http://goo.gl/opu9qs>

**Wednesday, March 26, 1:30 pm., HAMP 2201**  
**Lisa Welp-Smith** (Scripps Institution of Oceanography)  
Tracing Terrestrial Biosphere-Atmosphere Exchange of  
Carbon Dioxide and Water Using Stable Isotopes

## EAPS DEFENSES

**Monday, March 31, 12:00 pm., HAMP 3214**  
**Xudong Zhu** (PhD candidate) Modeling Land-  
Atmospheric Methane and Carbon Dioxide Fluxes in  
Terrestrial Ecosystems of Northern High Latitudes Using a  
Model-Data Fusion Approach

## EAPS NEWS

### PROFESSOR AGEE INVITED SPEAKER AT NORTHERN INDIANA ROTARY CLIMATE CONFERENCE

Rotary International, Indiana District 6540, participated in the 2014 World Affairs Conference on Climate Science, entitled *The Storm over Climate Change*, held on 19 March 2014 at the Twin Lakes High School in Monticello, Indiana. Nine area high schools sent 146 students to the conference, which focused on the book by Steve Goreham, entitled "The Mad, Mad, Mad World of Climatism," with complimentary copies to all students, staff and Rotarians. Goreham's 40 minute video was presented to the participants, and

Professor Agee was invited to provide the opposing view on Climate Change, Global Warming and the Role of GHGs.

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**PAUL SCHMID AMS BEST STUDENT PAPER AWARD**  
PhD Candidate, Paul Schmid's, presentation at the 11<sup>th</sup> Symposium of the Urban Environment at the 2014 Annual Meeting of the American Meteorological Society (AMS) was selected as a students' Best Oral Presentation Award!

Paul and Professor Dev Niyogi's paper is titled, **Modeling the Influences of Local Urban Aerosols on a Derecho in Birmingham, AL**. The abstract can be found here: <http://goo.gl/LRyhpR>.

## NEW GSA PENROSE CONFERENCE

The conference, titled, "Extensional Reactivation of Thrust Fault, Coseismic Surface Rupture, and Crustal Evolution in the Eastern Basin and Range Transition Zone," will be held later this summer. Through a series of presentations and field trips, the conference will be examining nascent processes related to the eastward propagation of extensional deformation at the modern boundary of the Basin and Range province of the U.S.

GSA is actively seeking both speakers and participants to register by **April 4<sup>th</sup>, 2014**. Follow the link for more information about the conference, support, registration and contact details: <http://goo.gl/9mcGJq>.

## CAMPUS NEWS

### INFORMATIONAL SESSION ON ALTERNATE GOVERNMENT RESEARCH FUNDING

All are invited to join the Office of Technology commercialization for this informative seminar. It will take place on **Thursday, March 27, in the Herman and Heddy Kurz Purdue Technology Center** (located across from International Sports Center in the Purdue Research Park.) The seminar will be held from **11:30 a.m. – 1:30 p.m.**, lunch is included. See attached flier for more details.

## EARTH DAY SERVICE-LEARNING EVENT

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Here at Purdue we have many events tied to community engagement and education on Earth Day. Purdue faculty, staff, and students are all encouraged to participate.

This year the events are focused on invasive plant species and deer management. The service-learning aspect of the day will be pulling the garlic mustard plant at a NICHES site in order to restore the area back to a more healthy state.

The event will take place on Tuesday, April 22. See attached flier for more details.

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## POSTDOCS AND GRADUATE STUDENTS

### DENALI NATIONAL PARK PHYSICAL SCIENCE TECHNICIAN VACANCY

Denali National Park and Preserve in Alaska is currently seeking to fill a Physical Science Technician vacancy. This is a GS-7 TERM appointment and may be extended up to 4 years without further competition.

The Physical Science Technician will assist senior resource science and management staff with the collection, management, analysis, and interpretation of a wide range of physical science information.

For complete details and application materials, please see: <http://goo.gl/ipZ76i>.

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### GRANT OPPORTUNITIES FOR GRADUATE RESEARCH SOCIETY OF PETROPHYSICISTS AND WELL LOG ANALYSTS FOUNDATION

The Society of Petrophysicists and Well Log Analysts Foundation (SPWLA), provides financial assistance to eligible and qualified recipients pursuing a degree program related to oil, gas, or other mineral formation evaluation. Grants are available for graduate students, as well as faculty members, to support research studies and educational projects related to formation evaluation and are awarded on a competitive basis. **Application deadline is April 1, 2014.** Intuitive application forms are available at [www.spwla.org](http://www.spwla.org) under the Foundation button.

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## UNDERGRADUATE AND GRADUATE STUDENT INFORMATION

### COMPUTATIONAL SCIENCE AND ENGINEERING STUDENT CONFERENCE

On **April 1<sup>st</sup>**, the SIAM@Purdue will be hosting the fifth interdisciplinary **Computational Science and Engineering Student Conference (CSESC2014)**.

The conference is currently accepting abstracts/proposals of talks and posters from both undergraduate and graduate students working in any discipline that uses computational research to advance in their field. See attached flier for details.

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### PURDUE WATER COMMUNITY STUDENT GRANT

The Purdue Water Community is now accepting applications for the PWC Student Grant Program for Student Led Water Projects. The program goal is to foster the expansion of student-led water projects and opportunities that impact Purdue University's campus, the community, and the Purdue University Student Body.

The PWC Student Grant Program will provide financial support for student-led projects/services that address water-related topics that influence the campus community and encourage students to explore and engage in the development of new opportunities.

Grants will be made to individual students, teams of students (including class-based), and student organizations.

It is expected that most projects will cost between \$500 and \$2,000. Complete guidelines and information is attached below.

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## A NOTE FROM OUR ACADEMIC COUNSELOR

### TOMORROW'S ENGINEERING LEADERS-THE TWENTY20S

Recognizing Top University Talent in Partnership with Raytheon

Every so often someone comes along who is going to change the world. Aviation Week is looking for that someone — the young innovator, passionate believer and lifeblood of the next generation.

This November, Aviation Week will celebrate the accomplishments and drive of 20 engineering, math, **science** and technology students in their 20s at the undergraduate or master's degree level. We'll also introduce this next generation on the pages of Aviation Week & Space Technology in our November 17, 2014, digital and print publication.

Nominate yourself, a peer, or a person you know who embodies these traits and is on a course to change the future of aerospace and defense! All submissions must be received by **May 30**. Questions? Contact Carole Rickard Hedden at [carole.hedden@aviationweek.com](mailto:carole.hedden@aviationweek.com). See flyer.

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## March Birthdays

Joseph Francisco- Mar. 26<sup>th</sup>



### 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 [www.purdue.edu/eas/](http://www.purdue.edu/eas/) and **Click on News** to access active links as needed. Material for inclusion in the newsletter should be submitted to Amy Cooper ([ancooper@purdue.edu](mailto:ancooper@purdue.edu)) by **5:00pm 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.purdue.edu/eas/info\\_tech/index.php](http://www.purdue.edu/eas/info_tech/index.php).

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at <http://eaps.purdue.edu>.



You are cordially invited to attend an  
**Informational Session on Alternate Government Research Funding -  
the world of SBIRs/STTRs, BAAs, IDIQs, TOs, etc**

Federal agencies like Departments of Commerce, Defense, Energy, Homeland Security and others support university research and development in a wide variety of fields, including medical sciences, social and behavioral sciences, biological and chemical sciences, and information and computer sciences. Processes for securing funds through these departments differ from those that might be familiar to faculty for the National Science Foundation, National Institutes of Health and other similar funding agencies (USDA, EPA, etc).

For this reason, the Dr. Hoverman will visit the PRF and offer an introduction to these alternative funding mechanisms and processes. The session will include a presentation on these alternative mechanisms and time for Q&A about the various funding processes and research foci.

**THURSDY, MARCH 27, 2014**

**Herman and Heddy Kurz Purdue Technology Center**

(across from International Sports Center in the Purdue Research Park)

**1281 Win Hentschel Blvd.**

**West Lafayette, Indiana**

**11:30 a.m. – 1:30 p.m.**

Lunch is included

Lisa Hoverman, PhD, founded Healthcare, Scientific and Medical Communications (HSMC) in 2008. Dr. Hoverman's background is a scientist who excelled at public speaking, lecturing, writing and editing about science. She specializes in the areas of scientific and medical grant and federal proposal writing, editing, and management. Lisa evolved her success as a grant writer and proposal manager in academia, into a private consultant career where she continues to support many customers in grant pursuits, scientific and medical writing, and supports others by managing private and federal proposals and projects. She has been an active team lead on over 20 funded grants and as a proposal manager/writer on more than 115 proposals. Dr. Hoverman stays active in science, lecturing on Biology every other semester at community colleges and state universities.

**Seating is limited**

**Please RSVP by March 21st to Sally Ross at [saross@prf.org](mailto:saross@prf.org).**



**Earth Day Service-Learning Event**  
**Purdue University / NICHES Land Trust**  
**Tuesday, April 22, 2014**

**8:00am - 12:00pm in Pfendler Hall Dean's Auditorium, Room 241**  
**12:00 - 4:30pm Bus travel to site location and back**

**Background:**

The holiday that we now celebrate known as Earth Day was first celebrated in 1970. In the 1960s events like the fire on Cleveland's Cuyahoga River and the publishing of Rachel Carson's "Silent Spring" began creating an environmental fervor. Wisconsin senator Gaylord Nelson was inspired by these events to create a holiday that would focus on mobilizing the public. More than 40 years later we are still celebrating this holiday in a time when 'sustainability' is more important than ever. Here at Purdue we have many events tied to community engagement and education on Earth Day. Purdue staff, faculty, and students are all encouraged to participate.

**Overview:**

This year the events are focused on invasive plant species and deer management. The service-learning aspect of the day will be pulling the garlic mustard plant at a NICHES site in order to restore the area back to a more original and healthy state. Our plan is to do this pull several years in a row, so students and staff that participate each year, will be able to see an improvement in the health of the area. More details are listed below.

**Schedule:**

8:00 - 8:45 am (Pfendler Hall, Room 241)

Bob Easter, stewardship manager for NICHES, (Northern Indiana Citizens Helping Ecosystems Survive) will be speaking about what NICHES is, how it was formed, and what its goals are.

8:45 - 9:30 am (Pfendler Hall, Room 241)

Mike Mycroft is the Resource Management Coordinator for the Indiana Department of Natural Resources. His topic of discussion will be deer management. In 2013 Indiana actually held deer reduction hunting because of the necessity of controlling the deer population to maintain the environment. Mycroft was involved in this event and will be speaking about the damage that can occur because of deer and what efforts can be taken to prevent this.

9:30 - 10:15 am (Pfendler Hall, Room 241)

NICHES' executive director, Gus Nyberg, will be speaking about the use of controlled burns/fires. These are commonly used as a natural means to maintain the landscape. You will learn about how this is done and how grassland areas benefit from this practice.

10:15 - 11:00 am (Pfendler Hall, Room 241)

A Purdue alum, Tom Swinford, will be speaking about relationships between governmental/non-governmental land management organizations and private land owners. His talk will be about how these groups can work together with the common goal of focusing on funding necessary programs. Tom works for the IDNR and is on the advisory board for NICHES.

11:00 - 11:45 am

Lunch will be provided.

12:00 - 5:00 pm (Bus Trip to Niches Land Trust Location)

The afternoon events will begin by having volunteers load the buses at the Pfendler dock. Volunteers will be taken to a NICHES location where a site leader will discuss the history of the natural area. This will transition to a discussion of the environmental challenges created by invasive plant species and white tailed deer. Volunteers will be shown an area that is functioning properly and has the desired levels of biodiversity, then they will be taken to an area facing invasive species. Here the volunteers will spend time pulling the invasive garlic mustard plant to help improve the area. At 5:00 pm buses will have volunteers dropped back off at Pfendler Hall.

# CSEC 2014

## COMPUTATIONAL SCIENCE AND ENGINEERING STUDENT CONFERENCE

### Deadline March 28:

<http://csesc2014.wordpress.com/conference-registration/>

On **April 1<sup>st</sup>**, the SIAM@Purdue will be hosting the fifth interdisciplinary **Computational Science and Engineering Student Conference (CSESC2014)** at **Purdue University**, in West Lafayette, IN. This conference will highlight the breadth of computational science and engineering research that is being done across the different departments. It will allow students to see how the modeling and numerical techniques are being applied in other disciplines.

The conference is currently **accepting abstracts / proposals** of talks and posters from both undergraduate and graduate students working in any discipline that uses computational research to advance in their field. Each of the applicants for talks and poster presentations need to submit a title and an abstract. We aim to include as many talks as possible. The invited participants will be contacted by email. Also, participants who submitted material are cordially invited to our free **lunch** during the Confe-

### WHERE

Burton D. Morgan

### WHEN

Tuesday, April 1<sup>st</sup>

### CONTACT US

**PURDUE**  
UNIVERSITY™

**siam**

SIAM PURDUE CHAPTER



@SIAM\_Purdue



@SIAM\_Purdue

[www.purdue-siam.org](http://www.purdue-siam.org)





**Purdue University ~ Water Community  
Student Grant Program  
For Water Projects and Opportunities**

**GUIDELINES & INFORMATION**

for Student-Led Water Projects  
2014 - 2015

**Goal**

The program goal is to foster the expansion of student-led water projects and opportunities that impact Purdue University's campus, the community, and the Purdue University Student Body.

**Plan**

The Purdue Water Community Student Grant Program will provide financial support for student-led projects/services that address water-related topics that influence the campus community and encourage students to explore and engage in the development of new opportunities. This program is intended to give students the opportunity to enhance the quality of their education and experience as a member of the student community.

**Grant Levels**

Grants will be made to individual students, teams of students (including class-based), and student organizations. Grant allocation sizes are dependent on the number of applications received and related funding amounts requested. Projects of noteworthy design or that directly impact a significant portion of the student body and campus and/or community will be given preference for funding decisions. Only one project per team for class-based or organizational projects will be funded per grant cycle. It is expected that most projects will cost between \$500.00 and \$2,000.00.

**Sponsorship/Advisor/Mentor**

- To be eligible for a grant, the project/service proposal **must be authored by a Purdue University student** (or students).
- Both undergraduate and graduate student(s) are eligible to receive a grant.
- For individual graduate students and graduate-only teams, projects/services should be designed to impact the student/campus community rather than individual or academic projects.
- Must have the approval/sponsorship of a faculty or staff advisor/mentor.
- The sponsoring College/School, department, office, organization, or unit **must agree** to serve as the fiscal agent for the project (and student/student group).

**Expected Uses of Funds**

- Funds may be used for materials, equipment, services, or supplies necessary to complete the project.
- Publicity, printing, and postage are allowable costs.
- Other items must be adequately justified in the proposal.
- Funds should be used before the end of the academic year and with prior approval the end of the summer.

**Funds are NOT to be used for**

- May not be used for student, faculty, or staff salaries, honoraria, or compensation to the individual(s) working on the project, but may be used for contracted services or speaking contracts for individuals external to Purdue University (funding for speakers must be included in the project proposal).
- May not be used as a donation.
- May not be used for cash awards or purchasing gift cards, as an award or special prizes, etc.
- May not be used for normal departmental instruction or research costs, such as field trips, etc.

**Application Guidelines**

- **A current year** application form for the grant program must be completed for all proposed projects/services requesting funding.



- Sign-off of the application by the student author(s) or President of Student Organization (if applicable), and Purdue Sponsor are required.
- **Applications with incomplete signatures will not be considered.**
- Applications are to be delivered to the Jill Wable front desk (specify that it is for the Student Water Programs - Purdue Water Community), or by email to [PWC@purdue.edu](mailto:PWC@purdue.edu), on or before March 14, 2014.
- Applications received after the above deadlines will be considered if funds are available.
- Preference will be given to applications that benefit the Purdue University student body/campus. Projects/services targeting the surrounding community will be considered if benefits for Purdue University/students are justified in the proposal.
- **Funding exclusively for a travel-related activity will not be considered.**
- The project/service must be described in 500-750 words or less for each area of description, specific content is below.
- Complete an **itemized** budget and expected income (if any) for the project. Clearly state the funding amount you are requesting.

### General Information

- Purdue students involved in projects must be in good standing with the University at the time of fund allocate.
- **The student(s) must be the communicator(s) regarding any questions involving the grant.**
- Submission of an application does not guarantee funding.
- In certain cases, grant may be awarded conditionally upon applicant's agreement to additional terms that may be specified to ensure adherence to Purdue University policies.
- Partial funding may be awarded in certain cases.

### Accountability - Final Report Required

Each grant recipient is required to write a **FINAL REPORT** describing the results and benefits of the grant, and a measure and/or description of benefits the project or service has provided for the Purdue University student body and campus community. **Final reports are due one week following the project completion date**, or no later than one week prior to the end of the semester for projects with extended, long-term, or summer session completion dates. The Final Report instructions will be provided at the time funds are allocated to the recipient(s). Signatures of the student, Purdue sponsor, and Purdue Business Office that the funds were processed through are required.

### Point of Contact

All applications should be submitted through one of the following means:

**Drop off** at Global Sustainability Institute, Gerald D. and Edna E. Mann Hall, room 105, 203 S. Martin Jischke Drive, W. Lafayette, IN 47907-1971. Phone (765) 494-1610

**By email** to [pwc@purdue.edu](mailto:pwc@purdue.edu)

Reports, inquiries, and all other communications should be directed to: Purdue Water Community [pwc@purdue.edu](mailto:pwc@purdue.edu)

### Application Review and Notification

- All applications will be reviewed by the Purdue Water Community executive council. The committee will provide grant awarding recommendations to the Director, who will make the final approval. The executive committee is made up of the faculty from across the Purdue campus.
- The amount of the grant requested may be reduced by the review committee.
- Applicants will be notified of the Committee's recommendation on or before April 4, 2014.

### To receive your money

- Approximately two weeks after you receive your acceptance letter, please contact the business office noted in your award letter. For organizations please visit the Business Office for Student Organization

**Purdue University ~ Water Community  
Student Grant Program  
For Water Projects and Opportunities**

**APPLICATION**

for Student-Led Water Projects  
2014/2015

*Please Type or Print Clearly ~ Complete All Sections*

**Student Information**

Name of Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Degree Status (Graduate, Undergraduate): \_\_\_\_\_

Check & provide details for any items below that describe your affiliation(s) for this project:

\_\_\_\_ Purdue Course # and Title: \_\_\_\_\_

\_\_\_\_ Individual/Student Team request and # Students: \_\_\_\_\_

\_\_\_\_ Student Organization Title: \_\_\_\_\_

**Project Information**

Title of Project: \_\_\_\_\_

Approximate # of Purdue Students Involved in Organizing the Project: \_\_\_\_\_

Approximate # of Individuals Impacted by the Project (Please categorize, example) 5 Purdue students, 25 community members, 1 school, etc.): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Proposed Starting and Ending Dates of Project (mm/yyyy) to (mm/yyyy): \_\_\_\_\_

\_\_\_\_\_

**Purdue University Sponsor Information**

Sponsor's Name (Faculty, Staff, or Organization Advisor): \_\_\_\_\_

\_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Home Department: \_\_\_\_\_

Department/Organization where funds will be distributed: \_\_\_\_\_

Business Office Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

### Description of Project

500-750 Words or Less:

Briefly describe the project (include an estimated timeline) and how it contributes to water sustainability at Purdue University or in the local community (local community projects: include benefits to Purdue University/campus community). Specifically, include how the environmental, economic, and social aspects of sustainability will be incorporated into this project.

### Long-Term Impacts and Needs of Project

500-750 Words or Less:

Briefly describe how this project will be sustained in the long-term. Specifically, explain the potential long term impacts your project will have on water. Please include any possible collaborations with other sustainability partners, mentorship components, integration of sustainability into the classroom curriculum, etc.

### Proposed Budget

Provide an itemized list of the expected expenses by expenditure type that will be charged to this grant. Also list expected revenue for the project (if any) including sources and amounts. **Refer to the Guidelines for items that are approvable expenditures.** Add additional lines as needed.

Item	Expense	Income	Source of Funds
	\$	\$	
	\$	\$	
	\$	\$	
	\$	\$	
	\$	\$	
	\$	\$	
	\$	\$	
Total Requested:			\$

**TOTAL AMOUNT REQUESTED:** \_\_\_\_\_

\_\_\_\_\_  
Signature of Student and Date

\_\_\_\_\_  
Signature of Purdue Sponsor and Date

**Signatures of all of the above are required. Incomplete applications will not be considered.**

Purdue University ~ Water Community  
Student Grant Program

**FINAL REPORT**

for Student-Led Water Projects  
2014/2015

To be completed and filed one week following the end date of the project

*Please Type or Print Clearly ~ Complete All Sections*

**Student Information**

Name of Contact: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

**Project Information**

Title of Project: \_\_\_\_\_

Date Project Occurred: \_\_\_\_\_

Number of Purdue Students Involved with the Project: \_\_\_\_\_

Total Number of People Impacted DIRECTLY with the Project: \_\_\_\_\_

Total Number of People Impacted OVERALL with the Project: \_\_\_\_\_

**Description of the Project** *(please use a separate page)*

500-750 words or less briefly describe the following:

- Number of people benefiting from the project
- Partnerships and/or initiatives that were established and/or enhanced as a result of the project
- Major objectives completed by the project
- The project's contribution to sustainability at Purdue University and/or in the local community
- Suggestions for improving a similar project in the future

**Final Budget**

Provide an itemized list of how the funds were used. Add additional lines as needed.

Item	Expense	Income	Source of Funds
	\$	\$	
	\$	\$	
	\$	\$	
	\$	\$	
	\$	\$	
	\$	\$	
	\$	\$	
Total:			\$

**TOTAL:** \_\_\_\_\_

\_\_\_\_\_  
Signature of Student and Date

\_\_\_\_\_  
Signature of Purdue Sponsor and Date

\_\_\_\_\_  
Signature of Business Office and Date

Signatures of all of the above are required. Incomplete applications will not be considered.

Please submit your final report to: [pwc@purdue.edu](mailto:pwc@purdue.edu)

# TWENTY 20S 2014

**Submit Your  
Nominations:  
Act Today!**

## **Tomorrow's Engineering Leaders-The Twenty20s** *Recognizing Top University Talent in Partnership with Raytheon*

**Every so often, someone comes along who is going to change the world.** Aviation Week is looking for that someone — the young innovator, passionate believer and lifeblood of the next generation.

**This November, Aviation Week will celebrate the accomplishments and drive of 20 engineering, math, science and technology students in their 20s at the undergraduate or master's degree level.** We'll also introduce this next generation on the pages of *Aviation Week & Space Technology* in our November 17, 2014, digital and print publication.

**Nominate yourself, a peer, or a person you know** who embodies these traits and is on a course to change the future of aerospace and defense!

**All submissions must be received by May 30.**

**Questions? Contact Carole Rickard Hedden at [carole.hedden@aviationweek.com](mailto:carole.hedden@aviationweek.com)**



Produced in Partnership:

**Raytheon**