EAPS MEETINGS & EVENTS

CoS SPRING FACULTY MEETING SCHEDULE
Apr. 19, 2016
LWSN 1142
3:30-4:30 PM

EAPS SPRING FACULTY MEETING SCHEDULE
Mar. 22nd, Apr. 12th, 2016
HAMP 3201
3:00-4:30 PM

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LPSC 2016
March 21-25, 2016
The Woodlands, Texas

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EAPS AWARDS BANQUET
April 18, 2016
Buchanan Club of Ross-Ade Pavilion
Reception: 5:30 PM
Dinner at 6:00 PM

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ALUMNI ADVISORY BOARD MEETING
April 19, 2016
HAMP 2201

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DEAN’S VISIT TO DEPARTMENT
April 21, 2016
1:30 - 4:00 PM

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EAPS FACULTY & STAFF FALL RETREAT
August 18, 2016
Beck Ag Center, Rm 111
8:30 AM – 4:00 PM

EAPS FALL WELCOME BACK PICNIC
August 18, 2016
Happy Hollow Park, Shelter 1
4:30 – 7:00 PM

EAPS COLLOQUIA

Oliver Boyd, United States Geological Survey
“Seismic Hazard and Geodesy in the Mew Madrid Seismic”

Thursday, March 24, 2016
3:30 PM
HAMP 1252

EAPS NEWS

GRADUATE STUDENT STRIVES FOR PURDUE’S ASTRONAUT WALL

A record-breaking amount of people have applied to become one of NASA’s 14 newest astronauts. Marie McBride, EAPS Ph.D. student, discusses the trend in an interview with WTHR. http://www.eaps.purdue.edu/news/

UNDERGRADUATE AND GRADUATE STUDENT INFORMATION

SUMMER REGISTRATION RESEARCH HOURS CHANGE

There has been a change in the registration of Summer research hours (EAPS 69800 and EAPS 69900). Research credits will now cover all three modules instead of just the second and third. Summer session now begins May 16.

- It’s very important that all graduate students conducting research – on or off campus – be appropriately registered. The number of 69800 and 69900 credits taken during the summer should reflect a graduate student’s research and writing efforts.
- EAPS 69800 and 69900 are scheduled from May 16 through August 2.
A maximum of nine (9) credits taken during Summer Session are permitted to fulfill graduation requirements.
Graduate staff must be registered for at least three (3) credits in order to hold their assistantships (i.e., if you are being paid, you must be registered).

As during the Fall/Spring semesters, a Form 23 is required in order to register for research hours. Failure to register by May 16 will invoke a $200 late registration fee. If you have questions contact Kathy Kincade at kkincade@purdue.edu

MICROSOFT WORD FOR THESIS WRITERS

These courses in March provide an overview of MS Word features that will help you quickly and easily format a thesis or dissertation meeting Purdue Graduate School requirements. Contact Ashlee Messersmith at amiley@purdue.edu with questions. See attached flyer dates and times. Registration is required at: https://goo.gl/X51tEQ

2016 CSU SACRAMENTO-GEOLGY FIELD CAMP

Spring 2016 field course open to senior geology majors. Note that the entire class is conducted from June 1 to July 10, 2016.

Applications form is available at www.csus.edu/geology. Email application PDF and materials to geology@csus.edu (cc: hausback@csus.edu) or mail to:
Geology 188 Application
c/o Geology Department
California State University, Sacramento
6000 J Street
Sacramento, CA  95819-6043

See the attached flyer for more information, schedule, fees, and deadlines. Please contact Brian Hausck at hauscak@csus.edu if you have questions.

SHORT TERM STUDY ABROAD PROGRAMS

The GREEN Program offers accredited 8-10 day programs which take students to epicenters of clean tech, sustainability, and innovative industries. Programs available winter, summer, or spring break. See attached flyer.

- Participate on world-class bucket list adventure excursions
- Earn an academic transcript for transfer credit short term abroad programs for
- future clean energy & sustainability leaders

Apply: www.thegreenprogram.com

~ ~ ~ ~ ~ ~
National Water Center Innovators Program: Summer Institute of 2016

Incoming and current graduate students and post-docs (within three years of receiving their PhD) affiliated with US universities are invited to apply to participate in the National Water Center Innovators Program - Summer Institute of 2016 at the NOAA National Water Center and the University of Alabama in Tuscaloosa, AL from June 6 – July 20, 2016

Accepted applicants will have the opportunity to collaborate intensively for seven weeks on projects designed to contribute to the NWC goals of enhancing water-related products and decision-support services across the country. The Summer Institute will be led by faculty theme leaders and daily oversight will be provided by post-doctoral fellow course coordinators. Following the Summer Institute, students will be invited to attend the CUAHSI Biennial Meeting July 25-27, 2016 to present their work during a special session.

Application Deadline: Tuesday, March 15th.

Additional program information, including application instructions, can be found at https://www.cuahsi.org/summerinstitute

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2016 WATER FOOD GLOBAL CONFERENCE

The University of Nebraska is hosting a Water for Food Global Conference. The conference will be held April 24 – 26 in Lincoln, NE where the theme will be Public-Private Partnerships for water and food security.

We are calling for posters from graduate students that innovatively address current research focused on Water for Food at the University of Nebraska. If your abstract is accepted, your poster will be on display at the conference, where hundreds of international scientists, scholars and decision-makers from academia, government, industry, private foundations and NGOs will see and discuss your work with you. See attached flyer.

Prizes will be awarded. Abstract Deadline: March 16, 2016

See more at: http://waterforfood.nebraska.edu/2016-water-for-food-global-conference-poster-competition/#sthash.yyK9EX6S.dpuf
2016 NCERA-217/ADMS Meeting

Purdue University will be hosting a major regional meeting on agricultural drainage management on March 29-30, and we invite your participation if you are interested in hearing current research and discussing implementation strategies around drainage issues.

Researchers from eight states will present in the morning, and state and federal agency personnel will discuss implementation in the afternoon. Registration is $60 or $30 for students, which includes lunch and an evening reception. We also invite the submission of posters for the evening poster session/reception. Deadline for submitting a poster and for registering is March 23.

https://goo.gl/NHj8bs

2016 CROSSROADS GEOLOGY CONFERENCE

The student members of the Rho chapter of Sigma Gamma Epsilon at Indiana University would like to extend a formal invitation to participate in the 16th annual Crossroads Geology Conference, April 1 & 2, 2016 at Indiana University in Bloomington.

Crossroads is a student-organized event featuring research presentations by graduate and undergraduate students across the Midwest. This conference is open to any student in earth, atmospheric, or planetary science to present their research. Students from other fields, such as archaeology, physics, or anthropology, are also welcome to present research relating to geological sciences.

Crossroads is free to all students and is an excellent opportunity to interact with judges from a variety of industry and academic fields. Awards will be presented to top oral and poster presentations for undergraduate and graduate students. In addition, students are encouraged to participate in the networking event, career panel discussion, and the campus tour exploring the geology of Indiana University building stones. Breakfast and lunch are provided on Friday and Saturday as well as appetizers during the networking social Friday evening.

Abstract templates are located on the Crossroads website along with submission information. Abstracts and resumes are due March 23rd. If you are interested in attending the conference and would like a student host to house you please let us know and we will attempt to find a host for you.

Additional information available at http://www.indiana.edu/~sgeweb1/
For additional inquiries contact crossroadsgeologyconference@gmail.com

SUMMER 3-CREDIT FIELD COURSE OPPORTUNITIES WITH ECOSYSTEM FIELD STUDIES!

Caribbean Ecosystem Field Studies - Study, snorkel & SCUBA dive along the Caribbean coast of Mexico from May 21- June 9

Colorado Ecosystem Field Studies – Study, camp, & hike in the Colorado Rocky Mountains from June 21 - July 10 or July 18- August 6

An opportunity to apply classroom & textbook learning while immersed in an incredible ecosystem setting! Gain valuable career skills in hands-on ecosystem field research. Earn 3 undergraduate transfer credits. Also offering post-course, extended credit options of Independent Research & Conservation Internship

Open to students from all universities & majors. Accredited by the University of Montana at Missoula's Environmental Studies. Program: ENST 391- for 3 undergraduate semester transfer credits.

For all course information visit the course website: www.EcoFS.org or see the attached flyer.

Direct any further questions to Professor Steve Johnson, Course Director at steve@EcoFS.org

MERIT-BASED SUPPORT TO GRADUATE STUDENTS

The EAPS Department provides the opportunity for merit-based support to graduate students to present their research at professional conferences. The maximum yearly amount of department support is $400 per graduate student (each fiscal year). Submit your form to Kathy Kincade (Room 2169D/HAMP) no later than one month prior to the start of the conference you plan to attend. Requests after the fact or after that timeframe will not be accepted.

UNIVERSITY NEWS

ENVIRONMENTAL EDUCATION WORKING GROUP, C4E CALLOUT

The Environmental Education Working Group, C4E, is an interdisciplinary group of Purdue faculty and staff interested in informal and k-12 environmental education. If you have a desire to collaborate in promoting and supporting environmental education in Indiana, please come to the meet and greet session. See the flyer for additional information or contact Dan Shepardson at dshep@purdue.edu

Thursday, April 7 from 3-4:30 pm in MANN 203
ITAP OFFERING FREE SOFTWARE TRAINING

The ITaP Student Software Trainers are a free resource to any Purdue student or staff that want to learn a software program. They teach in a workshop or one-on-one and can help with Photoshop, Illustrator, InDesign, Dreamweaver, GarageBand, Windows Movie Maker, iMovie.

Email questions to itaprainers@purdue.edu or visit their website at www.bit.ly/student_software_trainers.

OTHER NEWS

14TH ANNUAL GREAT LAKES METEOROLOGY CONFERENCE

The conference will be at Valparaiso University on April 2, 2016. The keynote speaker is Dr. Bill Lapenta, Director of NOAA’s National Center for Environmental Prediction. Topics for the event include: lake effect snow research, meteorology in the energy sector, communications during severe weather, GOES-R, and much more. Registration cost is $55 until March 23, then it will increase to $75. For more information, please see the attached flyer or contact valpo.ams.nwa@valpo.edu.

SUMMER WORKSHOP IN MATHEMATICAL MODELING OF EARTH’S DYNAMIC SYSTEMS

This workshop will be an intense, hands-on introduction to the creation and use of numerical models as a method for investigating the dynamics of Earth systems. Participants will learn how to translate their understanding of Earth processes into systems of differential equations, and solve them to test hypotheses concerning both modern and ancient systems. In addition, participants will learn how to apply and evaluate selected existing Earth system models. The short course is open to graduate students and faculty. The event is from July 31-Aug 5, 2016 in University Park, PA. See the attached flyer for additional details and registration information.

JOBS

VISITING FACULTY POSITION

The Department of Natural Sciences at Shawnee State University invites applications for a one-year full-time Visiting Faculty position in Geology, to begin 2016. Applications due are due by March 7, 2016. If interested, apply at https://jobs.shawnee.edu/postings/2272. See flyer for additional details.

MMCC SUMMER INTERN POSITIONS

Intern positions available for the Midwestern Regional Climate Center. They are looking to fill positions for a Climatologist and Climatologist/Computer Programmer. This hourly position is from May 31-Aug. 19, 2016.

Interested applicants should email cover letter and resume no later than Monday, March 28, 2016 to Beth Hall, Director MRCC Illinois State Water Survey at bethhall@illinois.edu. See attached flyer for additional information.

SUMMER CAMP LEADER WANTED

Solid start summer camp at BG United Methodist Church is looking for an individual studying education. One lucky, loving and caring person will enjoy a summer of swimming, hiking, creek walking and exploring the many things to do in Battle Ground and surrounding areas.

Activities are preplanned, but you can add your special touch and developmentally appropriate ideas to keep active school age kids busy.

Pay is $8.50 an hour and the hours are 8:30 am to 4:00 pm M-F. A CDL and/or ability to drive our bus is helpful but not required.

Please apply in person at BG United Methodist Church, second floor, M-F. See Sherry Evans. For more info. Call 765-490-3185. This is a ministry opportunity.

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. While Fallon is on leave, material for inclusion in the newsletter should be submitted to Jill (jwable@purdue.edu) by 5:00 pm 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.html.

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.
Seismic Hazard and Geodesy in the New Madrid Seismic Zone

Oliver Boyd
United States Geological Survey

The New Madrid seismic zone (NMSZ) in the central United States has been the host of several major earthquake sequences over the last several thousand years. Most recently, three ~M7+ earthquakes occurred over a two month period in the winter of 1811–1812. Thrust events on the Reelfoot fault have been identified as the location for at least one of the large events in 1812 and 1450; sand blow and subsurface geophysical imaging evidence show that other large events have occurred, possibly on the Cottonwood Grove fault, Bootheel lineament, and the New Madrid north fault within the NMSZ and at other locations nearby but outside the NMSZ. Proposed magnitudes of the three large New Madrid events range from 6.6 to 8.4, and return periods range from 160 to 10,000 or more years; magnitudes of 6.6 to 8.0 and return periods of 166 to 50,000 years are implemented in the USGS National Seismic Hazard model. Estimates of earthquake magnitude and return period are critical to seismic hazard analysis and inferring seismic risk. Earthquake magnitudes and return periods also affect the costs associated with adopting various levels of earthquake resistant construction.

Present-day ground deformation in the NMSZ can provide some insight into the recurrence of large earthquakes and help refine estimates of seismic hazard. We analyze 15 years of ground motion data from the GPS Array of Middle America, which span the NMSZ and have operated since ~2000. We model the motions with several deformation mechanisms including: (1) creep on subsurface dislocations; (2) postseismic frictional afterslip and viscoelastic relaxation from the 1811–1812 and 1450 earthquakes in the NMSZ; and (3) regional strain. In agreement with previous studies, a dislocation presently creeping at about 4 mm/yr between 12 and 20 km depth along the downdip extension of the Reelfoot fault reproduces the observations well and, if steady over time, is consistent with a 500-yr return period of a M7.3 earthquake. However, we find that a dynamic model of postseismic frictional afterslip from the 1450 and February 1812 Reelfoot fault events can also explain this creep, which complicates the forecasting of future earthquakes. Regional compressive strain across the NMSZ is found to be less than $3 \times 10^{-9}$/yr, implying an average, very long return periods of >10,000 years for large M7+ earthquakes. If much of the present-day surface deformation results from afterslip, it is likely that many of the earthquakes we see today in the NMSZ are aftershocks from the 1811–1812 New Madrid earthquakes. Our results are consistent with models of intraplate earthquake clustering and the geologic history of earthquakes in the NMSZ that suggests major earthquakes are marked by periods of increased activity separated by extended periods of quiescence. Within this framework we conclude that the NMSZ is currently in an active phase, capable of generating M7+ earthquakes every 500 years. The next step is to apply our results to physically based clustering models to estimate the probability that the NMSZ continues to be in an active phase.

Thursday, March 24, 2016
3:30 p.m.
Room 1252 HAMP

Refreshments at 3:00 pm
Room 2201/ HAMP
Announcing the 2016 CSU Sacramento - Geology Field Camp (Geology 188)

Our course is a Spring 2016 offering, but note that the entire class is conducted from June 1 to July 10, 2016. Therefore, it would be very easy for students from other universities to take this course. Students at CSU campuses can apply for the course on their own campus through Intrasystem Concurrent Enrollment. In this system the student pays Spring semester tuition at their home campus and pays no tuition to the Sacramento campus. The only additional fee is the standard student field camp fee of $2850 paid by all CSU students (both from the Sacramento and any other CSU campus).

We are also hoping to allow students from non CSU campuses to apply. For those students please fill out the application form for “2016 Geology 188 Advanced Geologic Mapping” and send it in. We will give you further instruction on enrollment as that information becomes available.

Directions for Non-CSUS students interested in the Sacramento Geology Field Camp 2016:
Please apply by sending the application form and the Intrasystem Concurrent Enrollment form (both fully filled-out) to the Geology Dept. Office; to this address:

Geology 188 Application
c/o Geology Department
California State University, Sacramento
6000 J Street
Sacramento, CA  95819-6043

Alternatively, you may scan your application material to pdf and then email to geology@csus.edu.
(Also please cc: hausback@csus.edu)

No fees or deposits are needed at this time. If your course application is successful we will contact you and let you know how to pay the student course fee of $2850.

Keep in mind that the camp will begin on June 1, 2016 and we are in Sacramento for the first week of the course. You will be required to attend these lab sessions so you will need to find local accommodations for that period of time. Any accommodations for those initial days of the course are at your own expense. You might consider staying with family or friends that you might have in the Sacramento area.

We anticipate enrolling 12 or more non-CSUS students in the 2016 course but will not have exact numbers or results of your application until late January, at the earliest.

Enrollment will remain open until the course is full.
2016 Summer Field Course Announcement

Learn more & APPLY at EcoFS.org

Now Enrolling for the following 2016 Summer Field Courses

CARIBBEAN ECOSYSTEM FIELD STUDIES

Study, Snorkel, & SCUBA Dive on the Mexican Caribbean Coast

May 21 – June 9

COLORADO ECOSYSTEM FIELD STUDIES

Study, Hike, & Camp in the Colorado Rocky Mountains

June 21 – July 10 & July 18 – August 6

Take Your Education Beyond the Classroom this Summer!

- Earn 3 credits in our 20-day, condensed hands-on field study courses
- Learn in-demand skills & field research methodologies while immersed in an incredible ecosystem setting
- Easily transferrable college credits available to all students and majors
- Also offering Extended Credit options for Independent Research & Internships
- Accredited by the University of Montana at Missoula, Environmental Studies Program

For further questions email Professor Steve Johnson, Course Director: steve@ecoFS.org
MRCC Summer Intern-Climatologist

**Position:** Student Hourly

**Salary:** $12/hour  40 hours/week

**Availability:** May 31, 2016-August 19, 2016

**Primary Function of Position:** To serve in a support role within the service and research-based environment at the Midwestern Regional Climate Center (MRCC).

**Duties & Responsibilities:** This position is designed to expose the intern to the range of activities within the Midwestern Regional Climate Center. The intern will assist MRCC climatologists with service activities including responding to data and information requests in the MRCC service office as well as work on applied climate research projects.

**Qualifications**

**Education:** Currently (2015-2016 school year) enrolled as a sophomore or junior majoring in the atmospheric sciences or related field. A strong interest in climatology is preferred.

**Experience:** Strong communication skills are required for this climate services environment. Experience with word processing and spreadsheet software is also required. Experience in computer programming, scripting and statistical packages such as Unix, Perl and Python is encouraged.

**Knowledge:** Word and Excel.

**Contact Information:** Letters and resumes submitted electronically via email must include the applicant's last name as part of the file name. Interested applicants should email cover letter and resume no later than Monday, March 28, 2016 to:

Beth Hall, Director MRCC  
Illinois State Water Survey  
bethhall@illinois.edu

The University of Illinois is an Affirmative Action/Equal Opportunity Employer  
www.inclusiveillinois.illinois.edu
MRCC Summer Intern-Climatologist/Computer Programmer

Position: Student Hourly

Salary: $12/hour 40 hours/week

Availability: May 31, 2016-August 19, 2016

Primary Function of Position: This position is designed to expose the intern to the range of programming needs of the Midwestern Regional Climate Center (MRCC). To serve in a support role within the service and research-based environment at the Midwestern Regional Climate Center (MRCC) with computer programming assistance with MRCC data.

Duties & Responsibilities: The intern will assist MRCC scientists with the modification and development of computer programs and scripts to gain exposure to online tool development and research methods that accesses large atmospheric datasets. Ability to communicate effectively within a team environment is required.

Qualifications

Education: Currently enrolled undergraduate or graduate student majoring in computer sciences, atmospheric sciences, or related field. Programming experience with Perl, Python, Javascript and/or Java in a UNIX/LINUX environment.

Experience: in programming statistical summation of scientific data would be helpful.

Knowledge: Word, Excel, Perl, Python, Javascript, or Java.

Contact Information: Letters and resumes submitted electronically via email must include the applicant's last name as part of the file name. Interested applicants should email cover letter and resume no later than Monday, March 28, 2016 to:

Beth Hall, Director MRCC
Illinois State Water Survey
bethhall@illinois.edu

The University of Illinois is an Affirmative Action/Equal Opportunity Employer

www.inclusiveillinois.illinois.edu
Mathematical Modeling of Earth’s Dynamic Systems: 
Letting the Genie out of the Model

A Short Course

July 31 – August 5, 2016
University Park, Pennsylvania USA

Sandra Kirtland Turner (UC Riverside) and Lee Kump, David Pollard and Rudy Slingerland (Penn State), Course Instructors

This workshop will be an intense, hands-on introduction to the creation and use of numerical models as a method for investigating the dynamics of Earth systems. Participants will learn how to translate their understanding of Earth processes into systems of differential equations, and solve them to test hypotheses concerning both modern and ancient systems. In addition, participants will learn how to apply and evaluate selected existing Earth system models.

Agenda

Sunday, July 31, 2016: Arrivals and ice-breaker


Wednesday Aug. 3 (afternoon): Field trip/social event

Thursday Aug. 4: Introduction to Earth system models of intermediate complexity (GENIE) and full complexity Earth system models (general circulation models, ice-sheet models).

Friday Aug. 5: Opportunities to delve further into more sophisticated transport problems, EMICs, or GCMs.

Details

- Participants will have ample time to practice their skills creating and running models with help from the course instructors.
- Course enrollment is limited to 20 participants.
- Graduate students, postdoctoral associates, and early career faculty members will receive preference in the selection of participants.
- We anticipate that with the support of Penn State and our sponsors, the Agouron Institute and Princeton University Press, travel expenses, course fees and per diem costs of the participants will be minimal.

Those interested in participating in this workshop should send a curriculum vitae and a 1-page statement explaining their interest in participating and how they intend to put their new-found modeling skills to use in their research. Graduate students should provide the name of their advisors, their tentative thesis/dissertation titles, and an indication of whether they are pursuing an M.S. or Ph.D. degree. Please send all materials to Tina Vancas, Penn State Geosciences, 503 Deike Bldg., University Park, PA 16802 USA (tqs5@psu.edu).
Microsoft Word for Thesis Writers

Scheduled Sessions:

Word for MAC: Monday 3.07.2016 10 - 11:30AM SC 183
Word for PC: Monday 3.07.2016 5:30 - 7PM SC 231
Word for PC: Wednesday 3.23.2016 1:30 - 3PM HIKS G959
Word for PC: Friday 3.25.2016 9:30 - 11AM PHYS 026

An hour of content will be provided and the last 30 minutes will be Q&A

Candidates must pre-register using the following link:
https://ias.itap.purdue.edu/rgs/wgb_workshop.disp_online_workshop

These courses provide an overview of MS Word features that will help you quickly and easily format a thesis or dissertation meeting Purdue Graduate School requirements.

Topics to be covered will include:

- Table of Contents creation
- Using Section Breaks
- Next Page to control margins & pagination
- Landscape page creation
- Table creation
- Font embedding

Questions?
ASHLEE MESSERSMITH - ASSISTANT | 765.494.3231 | amiley@purdue.edu
http://www.purdue.edu/gradschool/research/thesis/index.html
ITaP STUDENT
SOFTWARE TRAINERS

The ITaP Student Software Trainers are a free resource to any Purdue student or staff that want to learn a software program. We can teach you in a workshop or one-on-one.

WHAT WE HELP WITH:

- Photoshop
- Illustrator
- InDesign
- Dreamweaver
- GarageBand
- Windows Movie Maker
- iMovie

HOW TO CONTACT US:

- EMAIL: itapttrainers@purdue.edu
- OFFICE: Young Hall, Room 547
- WEBSITE: bit.ly/student_software_trainers
- REQUEST A CONSULTATION: bit.ly/software_consultation
- REQUEST A WORKSHOP: bit.ly/software_workshops

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