EAPS SEMINARS

Thursday, August 29, 3:30 pm, HAMP 1252
Prof. Yuch-Ning Shieh, Purdue University, “The Early Development of Stable Isotope Geochemistry”

Wednesday, September 3, 3:30 pm, HAMP 2201
Dr. Jim McCalpin, AEG/GSA Jahns Lecture, “Paleoseismology: Has It Reduced Seismic Hazards, And If Not, How Do We Change Course?”

EAPS NEWS

RESEARCH SUPPORT SERVICES IN THE LIBRARIES

DID YOU KNOW? Purdue Libraries faculty can assist and consult on data management planning for research and/or other scholarly initiatives? Take advantage of their robust knowledge and expertise!

Many funding agencies are now requiring data management plans (DMPs) detailing how you will develop and share your data. Purdue Libraries faculty are available to provide data management planning consultations tailored to your submission.

Resources:
- The DMP Self-Assessment Questionnaire provides a set of questions for researchers related to issues that should be address in DMPs.
- Sample data management plans, templates, and resources are available on the Data Services LibGuide.
- The DMPTool is available for all faculty and helps to create a ready-to-use data management plan for specific funding agencies.
- Resources for research collaboration and developing a data management plan are available through the Purdue University Research Repository (PURR). PURR allows you to collaborate on research and publish datasets online. Each data publication is assigned a unique Digital Object Identifier (DOI) that can be used to reference the data in journal and conference papers.

Key Faculty Contacts: For more information, contact: Megan Sapp Nelson msn@purdue.edu

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Prof. Lasher-Trapp has just returned from the CONvective Precipitation Experiment (COPE) field campaign held 3 July-28 Aug in Southwestern England, to study the enhanced rainfall that may occur in that region that has produced multiple flash flood events in the past. She and co-PIs from the University of Wyoming took their King Air research aircraft with cloud probes, airborne cloud radar and lidar to collect data on precipitation development in the cumuli. Graduate student Daniel Moser also flew on the aircraft for 3 weeks during the campaign. The data collected and analyzed will help shed light not only on heavy rainfall events in England, but also be relevant to those in the U.S. and other parts of the world.

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EAPS PUBLICATIONS


**PRESENTATIONS**


Sun, W. Y., “Numerical Simulation of Dust Storms in Asia” at National Central for High Performance Computing, Tai-chung, Taiwan, July 12, 2013


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**PUGS?**

Do you have a passion for Earth? Do you find our solid planet and all of its cycles fascinating? Want to meet other cool people like yourself? Come check out P.U.G.S.! We are **Purdue University’s Geologic Society**. Never heard of us before?-That’s alright, our club has been rather small, but we have quite a bit planned for this upcoming semester. In PUGS, Students will be able meet professionals in the field as well as other interested students. We will participate in numerous activities, go on trips, and share our love for geology. Not a geology major?-No problem! Our club is open to everyone and anyone who wants to join. Come check us out! Callout: Sept. 9th, 2013, HAMP 1144, 6-7pm

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**OIL COMPANY INTERVIEWS**

**SHELL OIL**

September 17-18

Submit your online applications by September 2 at [http://www.shell.com/careers](http://www.shell.com/careers). If you don’t get an application in by September 2nd, don’t worry, they will be take applications after that date - just get it in as soon as you can. The early date will help get interviews set up. Mark Davidson, a former alum, and several other Shell representatives will be at the Industrial Roundtable. There will be no department interviews.

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**CHEVRON**

September 18-19

Chevron will hold an Information Session on September 18th at 6:00pm in HAMP 2201. If interested in obtaining an interview slot, please send your resume, transcripts (both undergraduate and graduate), and a cover letter to Michele Gutenkunst (mgutenkunst@chevron.com) by September 6th. (See attached flyer for additional information.)

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**EXXONMOBIL**

September 30-October 2

Stay tuned for further details.

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**STUDY ABROAD GRANT PROGRAM**

I am pleased to announce the Fall 2013 grant competition for development of study abroad programs for the West Lafayette campus. Through resources provided by the Office of the President to increase study abroad participation, this program will provide awards to individual faculty members, groups of interdisciplinary faculty or academic units as a whole. These funds are for the support and development of study abroad programs as well as support of ongoing and new faculty-led programs.

Like last year’s SAIL competition, awards up to $7,000 with a $2,000 department/college match are available in the form of program support subsidy or direct student subsidies to enhance study abroad programs. Up to $3,000 with $1,000 college or departmental match will be available to develop new strategic faculty-led programs or to train new faculty members to lead existing programs. A resulting new faculty-led program may also be eligible for the $7,000 award. Finally, funding beyond the typical $7,000 limit will be considered for strategic semester student exchange programs that include creative plans to increase student participation. The College will provide a $1,000 matching contribution for any such proposal.

In addition to the Study Abroad Office, Laura Starr (lstarr@purdue.edu) will be happy to assist you to develop the proposal. Proposals should not exceed three pages and must be submitted via e-mail to Dennis Minchella (dennism@purdue.edu) and Laura Starr (lstarr@purdue.edu) on or before 5:00 pm on Friday, September 13, 2013.

A proposal should include:

- A description of the program or courses being proposed and where it fits in the curriculum. For semester exchange, identification of the semester (e.g. second semester junior year) must be included. For short-term faculty-led programs, the proposal should include an explanation of how participation will lead toward degree completion.
- An explanation of how this program or courses fits into a departmental strategic plan for internationalization.
- An outline and timeline of the activities to be undertaken under the grant, together with the names of the faculty members responsible for these activities.
- A projection of the number and type of students who will participate in the program.
- Written support (including amount of matching funds) from head of department/unit.
- A budget and budget narrative outlining program expenses.

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**Callout:** Sept. 9th, 2013, HAMP 1144, 6-7pm
**A NEW ENERGY FUTURE**

There is an upcoming conference at Purdue, “A New Energy Future” that may be of interest to students. The conference will be in Loeb Hall on the afternoon of Friday, Sept. 13, 2013.

Together, the new Purdue Institute for Civic Communication (PICC), Bloomberg View (the opinion and analytical platform of Bloomberg News), and C-SPAN will present a series of forums on the issue of energy. The conference will start at 1:30 pm and wrap up at 6 pm. “A New Energy Future” will address questions including: What are future needs for fossil fuels, and can or should they be eliminated and replaced? Can we rely on renewables? Do practical solutions exist to reduce carbon emissions? How does natural gas change the equation? Is energy independence within reach?

Bloomberg View is inviting speakers from its talent lineup of writers and analysts, as well as representatives from Bloomberg New Energy Finance, which provides news and analytical tools to the energy sector. Brian Lamb is expected to interview a CEO of a major corporation on energy use. The forum will feature several Purdue faculty, including Jim Braun, Maureen McCann, and Wally Tyner in a panel. Program details will be available soon.

The format will encourage student Q&A. Please contact the PICC Executive Director, Ambassador Carolyn Curiel, at curiel@purdue.edu, or her student assistant, Alison Gayer, agayer@purdue.edu, with any questions.

**BLACKBOARD LEARN LUNCH-HOUR EVENTS**

To help faculty, instructors and teaching support staff leverage the latest Blackboard Learn features and other technology tools, ITaP is hosting multiple “Brown Bag Events” during the Fall semester on teaching and learning topics. The hour-long sessions, which include demonstrations, begin Thursday, August 29. See http://www.itap.purdue.edu/newsroom/news/130815_brown_bag_events.html for a list of upcoming events. All sessions begin at 11:30am and you are asked to reserve a seat through the ITaP Training calendar http://www.itap.purdue.edu/training/calendar/index.cfm.

**ALFRED P. SLOAN FOUNDATION RESEARCH FELLOWSHIPS**

These fellowships seek to stimulate fundamental research by early-career scientists and scholars of outstanding promise. Candidates must hold a Ph.D. (or equivalent) in chemistry, computational or evolutionary molecular biology, computer science, economics, mathematics, neuroscience, ocean sciences (including marine biology), physics, or a related field. Candidates must hold a tenure track (or equivalent) position and be no more than six years from completion of their most recent Ph.D. No more than three candidates from a department may be nominated. Please contact your Department Head ASAP to coordinate submission. Deadline: September 16.
**GK-12 PROGRAM CALLOUT**

GK-12 is an exciting program organized through the Graduate School that gives 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. After an initial training session, PhD students and Post Docs 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 that brings their interests and research into a middle school classroom. This program is open to all PhD and Post Doc students at Purdue (any and all disciplines). Master’s students may be accepted into the program if space allows. For more information, or to join the program, please contact the program coordinator (Faith Weeks; fweeks@purdue.edu) or check out the attached brochure that outlines the program for this semester. August 29th is the deadline to sign-up to participate.

**POSTDOCS AND PhD GRAD STUDENTS**

**NATIONAL RESEARCH COUNCIL of the NATIONAL ACADEMIES**

The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior researchers at participating federal laboratories and affiliated institutions. These awards include generous stipends ranging from $42,000 - $80,000 per year for recent Ph.D. recipients, and higher for additional experience. Graduate entry level stipends begin at $30,000. These awards provide the opportunity for recipients to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign nationals.

- Detailed program information, including online applications, instructions on how to apply and a list of participating laboratories, is available on the NRC Research Associateship Programs Website (see link above).
- Questions should be directed to the NRC at 202-334-2760 (phone) or rap@nas.edu. There are four annual review cycles.
- Review Cycle: May; Opens March 1; Closes May 1
- Review Cycle: August; Opens June 1; Closes August 1
- Review Cycle: November; Opens September 1; Closes November 1
- Review Cycle: February; Opens December 1; Closes February 1

Applicants should contact prospective Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities.

**FELLOWSHIP DEADLINES AND WORKSHOPS**

**NSF Strategies for Successful NSF Applications – September 5, 2013 or September 9, 2013**

For U.S. Citizens and Permanent Residents who are seniors or first-year graduate students. Learn the strategies for submitting competitive fellowship applications for U.S. national fellowships such as NSF, NDSEG, NIH. Hear suggestions from fellowship application reviewers, gain an understanding of the process, and get tips for enhancing your application. Please register for either workshop at https://ias.itap.purdue.edu/rgs/wgb_workshop.disp_online_workshop

**Grant and Proposal Writing Workshop – September 17, 2013**

Dr. Peter Dunn (Associate Vice Provost of Research, Director of University Research Administration & Compliance) will provide tips, advice, and instruction on how to write a proposal for funding. The workshop will be held on Tuesday, September 17, from 7:00 – 8:30 PM. Please register at: https://ias.itap.purdue.edu/rgs/wgb_workshop.disp_online_workshop

**A Note from Our Academic Counselor**

**EAPS Clubs**

**PUMA Callout for the Fall Semester** (Purdue University Meteorological Association)

**August 28th** at 7pm in HAMP 4251—all students interested in weather are welcome.

http://www.eaps.purdue.edu/for_students/purdue_weather/index.html

**Official PUGS Callout for the Fall Semester** (Purdue University Geologic Society).

**9/09/2013 in HAMP 1144 from 6 -7pm**

Open to anyone with an interest in the Earth Sciences and Geology!

Non-majors welcome
This is a great way to meet more students and faculty with similar interests, get your foot in the door with research connections, and be a part of something here at Purdue University.

Feel free to contact us with questions!
President: Ishra Noor
inor@purdue.edu
Vice President: Megan Neary
nearym@purdue.edu

**Student Success Workshop**

Wednesday, **August 28**, Rm. 318 STEW, 4:30-5:30. Stay Focused Workshop. Work on motivation and concentration; free and open to all students. Handouts on various topics:

http://www.purdue.edu/studentsuccess/academic/asc/studentsupport/handouts.html
Study Abroad Fair
Thursday, September 4, 2013 (10:00 am to 3:30 pm) at Memorial Mall for the annual campus-wide Study Abroad Fair. All approved programs will be represented, and you can visit with study abroad staff, program representatives, and recent student travelers to learn about study opportunities. Live music and giveaways will be on hand. More information: http://www.studyabroad.purdue.edu

Vouchers for Purdue Convocations (CONVOS)
Students may purchase tickets to Purdue Convocations for $10 by requesting a voucher from Science Undergraduate Education, Rm 231 MATH. Take the voucher to the Stewart Center box office to purchase the ticket. See: http://www.purdue.edu/convocations/. Vouchers are not available for all events.

Let’s Dance
On September 7 Global Dialogues is hosting a Multicultural Dance event for College of Science students. The event will take place from 7-10 p.m. at St. Toms (St. Thomas Aquinas Parish is on State St across from Stewart Center -STEW) and will include dance performances (some participatory!), snacks, and prize drawings. Open to all CoS students especially first-year students.

Legal Help
Starting September 3, there will be a director of Student Legal Services at Purdue. Leslie Charters who will be housed within the Office of Student Rights and Responsibilities (B050, SCHL) will be available to meet individually with Purdue University undergraduate students who are facing common legal issues such as: landlord/tenant issues, traffic tickets, alcohol related offenses, power of attorney, notary services, and small claims matters. She will also play a large role in providing preventative educational programming for students concerning the law and their responsibilities under the law. Her legal background includes state, city, and county court appointments.

Future Event
Sept. 19, 7 p.m. Elliott Hall of Music. Neil de Grasse Tyson will present "This Just in: Latest Discoveries in the Universe." Tyson, an astrophysicist and science communicator, is the Frederick P. Rose Director of the Hayden Planetarium at the American Museum of Natural History. He also is a member of NASA's advisory council. FREE EVENT.

Reminders
September 2 – Last day to drop a class without a record and through myPurdue (paperwork needed starting Sept. 3).
September 2 – Labor Day; no classes.

August Birthdays
Lucy Flesch – 12th
Terry West – 15th

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/ and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Wanitta Thompson (thompsow@purdue.edu) by Friday noon 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.

Also, as an additional resource for information about departmental events, seminars, deadlines, etc., see our departmental calendar at http://calendar.science.purdue.edu/eas/seminars.
The Early Development of Stable Isotope Geochemistry

Yuch-Ning Shieh
Purdue University

Professor Samuel Epstein played a major role in the development of stable isotope geochemistry which blends physics, chemistry, biology, and geology as applied to nearly all branches of natural sciences. This talk will trace the origin of stable isotope geochemistry starting at the University of Chicago in Professor Harold Urey’s laboratories in the late nineteen forties. Among many young scientists in Urey’s group, Samuel Epstein was a key member in the design and improvement of mass spectrometers and analytical techniques, as well as the formulations of geological problems. Epstein moved to the California Institute of Technology in 1952 to initiate a new program called stable isotope geochemistry in the Division of Geological Sciences. He continued to work at Caltech until his death in 2001. Major breakthrough in stable isotope geochemistry by Epstein and his students and postdocs will be highlighted.

Thursday, August 29, 2013
3:30 p.m.
Room 1252, HAMP Bldg.

Refreshments at 3:00pm
Room 2201/HAMP
Chevron Earth Science Campus Recruiting – Purdue University

Information Session – September 18th, 2013 @ 6:00 pm Room HAMP 2201

Interviews – September 18th & 19th

If interested in obtaining an interview slot, please send your resume, transcripts (both undergraduate and graduate), and a cover letter to Michele Gutenkunst (mgutenkunst@chevron.com) by September 6th. Invitations for an interview will be sent via email on September 11th. Please refer to the job descriptions or http://careers.chevron.com for more information and qualifications.
Chevron Corporation is one of the world's leading integrated energy companies with subsidiaries that conduct business across the globe. The company's success is driven by the ingenuity and commitment of approximately 62,000 employees who operate across the energy spectrum. Chevron explores for, produces and transports crude oil and natural gas; refines, markets and distributes transportation fuels and other energy products and services; manufactures and sells petrochemical products; generates power and produces geothermal energy; and develops and commercializes the energy resources of the future, including biofuels and other renewables. Chevron is based in San Ramon, California.

Chevron is accepting online applications for the position of entry-level Geologists and Geophysicists located in:
- Bakersfield, California
- Covington, Louisiana
- Lafayette, Louisiana
- Houston, Texas
- Midland, Texas
- Moon Township, Pennsylvania

Geologists and Geophysicists within Chevron are part of multi-disciplinary teams which vary in make-up but can include reservoir engineering, production engineering, simulation engineering, facility engineering and well engineering operations functions. These positions will provide technical geological or geophysical support and risk assessment for prospect generation, reserves recovery and major capital projects.

For most recent graduates, Chevron has a competency-based employee development program that includes two to three technical assignments in the first 5 years of your career supported by strong technical mentoring and comprehensive technical training. Mobility is encouraged as there are many opportunities for Chevron geologists and geophysicists to work in a variety of assignments at different locations, both domestic and international.

Responsibilities for this position may include but are not limited to:

**Geologic Skills:** Successful geology candidates must be familiar with development geology work processes and have the ability to integrate seismic, well, and production data to evaluate reservoirs. Reservoir Management skills such as reservoir mapping, modeling and characterization must be demonstrated. The successful candidate also needs to be adept at volumetric, reserve and risk assessments. Formation evaluation and planning for and managing reservoir surveillance programs or new well, sidetrack and work over planning could also be expected job functions.

**Geophysical Skills:** Successful geophysical candidates must be familiar with geophysical tools (velocity, amplitudes, AVO modeling, rock physics, seismic processing, etc.) to assist earth scientists and engineers in prospect generation and reserves recovery. The candidate must keep abreast of new and emerging technologies, maintain close ties with geophysical vendors and intra-company technology networks and leverage when appropriate.

**Required Qualifications:**
- Students completing the last year of the requirements for their Masters or Doctorate program in geology, geophysics, geological engineering or related fields or individuals with a Masters or Doctorate degree in geology, geophysics, geological engineering or related fields with less than 2 years of directly related work experience.
- GPA – 3.0 or above
- Strong academic performance in core programs, communication, leadership, teamwork and problem-solving skills.

**Preferred Qualifications:**
- Masters or Doctorate students with specialties in the fields of geophysics, seismic data acquisition and processing, seismic velocity modeling, reservoir properties from seismic, carbonate and clastic stratigraphy and petrography, structural geology, field mapping, depositional systems, petrophysics and well log technologies, geochemistry, and basin, geostatistical and fluid flow modeling. These skill sets are needed for our Chevron Energy Technology Company.

**Relocation Options:**
Relocation may be considered within Chevron parameters.

**Additional Application Instructions:**
Please submit your resume and unofficial Transcript(s) for review.

EOE M/F/D/V
Intern Job Description – Earth Science
Geologist / Geophysicist Intern

Chevron Corporation is one of the world’s leading integrated energy companies with subsidiaries that conduct business across the globe. The company’s success is driven by the ingenuity and commitment of approximately 62,000 employees who operate across the energy spectrum. Chevron explores for, produces and transports crude oil and natural gas; refines, markets and distributes transportation fuels and other energy products and services; manufactures and sells petrochemical products; generates power and produces geothermal energy; and develops and commercializes the energy resources of the future, including biofuels and other renewables. Chevron is based in San Ramon, California.

Chevron is accepting online applications for the position of Geologist and Geophysicist Interns located in:

- Bakersfield, California
- Covington, Louisiana
- Lafayette, Louisiana
- Houston, Texas
- Midland, Texas
- Moon Township, Pennsylvania

Geologists and Geophysicists within Chevron are part of multi-disciplinary teams which vary in make-up but can include reservoir engineering, production engineering, simulation engineering, facility engineering and well engineering operations functions. These positions will provide technical geological or geophysical support and risk assessment for prospect generation, reserves recovery and major capital projects. Mobility is encouraged as there are many opportunities for Chevron geologists and geophysicists to work in a variety of assignments at different locations, both domestic and international.

Responsibilities for this position may include but are not limited to:

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**Required Qualifications:**

- Students pursuing their Masters or Doctorate degree in geology, geophysics, geological engineering or related fields.
- Strong academic performance in core programs, communication, leadership, teamwork and problem-solving skills.
- GPA – 3.0 or above

**Preferred Qualifications:**

- Masters or Doctorate students with specialties in the fields of geophysics, seismic data acquisition and processing, seismic velocity modeling, reservoir properties from seismic, carbonate and clastic stratigraphy and petrography, structural geology, field mapping, depositional systems, petrophysics and well log technologies, geochemistry, and basin, geostatistical and fluid flow modeling.

**Relocation Options:**
Relocation may be considered within Chevron parameters.

**Additional Application Instructions:**
Please submit your resume and unofficial Transcript(s) for review.

EOE M/F/D/V
If you are interested in learning more about this program or have additional questions, please email Faith Weeks (fweeks@purdue.edu) for more information.

**NEXT STEP**

If you would like to participate in this volunteer program all you need to do is send your CV (including on campus contact information) and a one page, informal biography of yourself, including why you want to be a part of this program, and a simple explanation of your research to Faith Weeks at fweeks@purdue.edu. This information will be used to match you with a middle school teacher for the Fall 2013.
PFF/PFP GK-12 Program

**Program Overview**

- Open to Ph.D. students in any department at Purdue *
- Ph.D. students volunteer to serve as “visiting scholars” in local middle schools
- Teachers and Ph.D. students work together to integrate research and new approaches into classrooms
- Ph.D. students observe the classroom first, then gradually assist teachers – working up to teaching a lesson as the primary teacher

**Program Goals**

1. Provide training, mentoring, and experiences for graduate students to develop their abilities as potential future faculty and professionals
2. Enhance quality of education in middle schools
3. Provide professional opportunities and content support for middle school teachers
4. Foster partnerships between the university and local schools

**Roles & Responsibilities**

- Attend training and check in meetings
- Commit to being in the classroom for 1 day per week (roughly 7 hours)
  - Can split up the time; schedule is up to you
  - Initially assist with lessons led by the teacher, later develop your own lesson plan
- Submit a short weekly reflective journal on your experiences in the classroom
- Create an inquiry-based lesson plan that relates to your research theme and implement it
- Obtain a service learning grant from Purdue University to support any classroom costs
- Submit final lesson plan, all associated materials, and a one page final reflective essay about your lesson plan

**Program Outcomes**

**Ph.D. Students:**
- New way to apply their research
- Improved teaching abilities & knowledge
- Better understanding of K-12 education
- Enhanced communication and time-management skills

**Teachers:**
- Enhance lesson plans and teaching
- Add new lessons based on research
- Content matter support
- Increased understanding of “research”

**Middle School Students:**
- Exciting new curriculum additions
- New role models in the classroom

**Program Timeline**

**August 29th**
- Deadline to Sign Up to Participate

**August 30th**
- Participant Training Workshop
  - 4pm–8pm, Hampton Hall Room 2201

**September 4th**
- Teacher/Participant Meet & Greet
  - 4:00pm-4:30pm at Tecumseh

**September 9th – November 15th**
- Participants in the Classroom

**September 20th**
- Checkup Meeting #1
  - 4pm-8pm, Hampton Hall Room 2201

**October 11th**
- Checkup Meeting #2
  - 4pm–8pm, Hampton Hall Room 2201

**November 1st**
- Checkup Meeting #3
  - 4pm-7pm, Hampton Hall Room 2201

**December 6th**
- Final Participant Group Meeting
  - 4pm-7pm, Hampton Hall Room 2201
- Final reflective essay and lesson plan materials due by midnight

* This is not a funded graduate assistantship; optional 2 credits course (GRAD 590 – Graduate Student Engagement in K-12 Education)

**Dates/times are subject to change.**