

December 21, 2015

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EAPS MEETINGS & EVENTS

CoS SPRING FACULTY MEETING SCHEDULE

Feb. 16 & Apr. 19, 2016

LWSN 1142

3:30-4:30 PM

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### EAPS SPRING FACULTY MEETING SCHEDULE

Jan. 12<sup>th</sup>, Feb. 9<sup>th</sup>, Mar. 22<sup>nd</sup>, Apr. 12<sup>th</sup>, 2016

HAMP 3201

3:00-4:30 PM

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AMS 2016

January 10-14, 2016

New Orleans, LA

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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

HOLIDAYS (MAIN OFFICE CLOSED)

CHRISTMAS VACATION

Dec. 24th - Dec. 31st

NEW YEAR'S DAY

Jan. 1st

EAPS NEWS

DECEMBER HOLIDAY RECESS

(Dec 24th - Jan 1st)

The main office will be closed from **Dec 24th - Jan 1st** due to the extended holiday recess. If you plan to be on campus in HAMP, and have an urgent matter arise related to your office or lab (e.g. leaks, etc.), please call 494-8221, which is the Purdue Dispatcher. They will contact maintenance (1st Responder), fire department, or police as appropriate. If it's a true emergency, you will need to dial 911.

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### EAPS FACULTY AND STAFF RESOURCE FUND

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, 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.

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MATHEMATICAL CONTINUUM PHYSICS, MATH 598/EAPS 591

SPRING 2016 (Tues & Thurs. 1:30-2:45 PM)

Instructor: Dr. Jon Cushman
CRN: 15509

Lagrangian and Eulerian coordinate system representations are employed throughout all developments. We begin by constructing the fully non-linear strain tensor and analyze its component's physical significance. This is followed by development of the integral, and subsequently local forms, of conservation of mass, balances of linear and angular momentum and conservation of energy.

The 2nd –law of thermodynamics is postulated for the entire body and employed to develop fully non-linear constitutive relations which are subsequently linearized near equilibrium for many classes of fluids and solids. Maxwell's equations of electrodynamics are introduced, coupled with the conservation and balance laws and subjected to the 2nd – law to obtain generalized field equations. Averaging principles are employed to obtain the conservation and balance laws for mixtures of species and phases of relevance to porous media. Applications are presented for swelling biopolymers (foods and cells), drug delivery substrates, geophysical media (soils, aquifers and petroleum reservoirs), electro-active polymers (soft robotics), and fuel cells (flow batteries). The common structure of all these examples is highlighted.

UNDERGRADUATE AND GRADUATE STUDENT INFORMATION

CONGRATULATIONS TO EAPS DECEMBER 2015 CANDIDATES



Prithvi Gadhia
Kristan B. McEnany
Ethan J. Starling

ENERGY CENTER SPECIAL PROJECTS COORDINATOR POSITION AVAILABLE

This paid position (with tuition benefit) offers students the chance to develop leadership, marketing, public speaking and data analysis skills. Students applying for this position must be studying STEM disciplines graduating after **May 2017** and commit to three semesters (**spring 2016, fall 2016 and spring 2017**) and approximately 10 flexible hours of work per week.

For details, see:

https://purdue.qualtrics.com/jfe/form/SV_bde2U1axf3V8DaJ

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#### 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.

#### OTHER

#### MATERIALS MANAGEMENT AND DISTRIBUTION SERVICES (MMAD) HOLIDAY SCHEDULE

**December:** Beginning **December 24, 2015** through **January 3, 2016**, which includes the 3 additional recess days, there will be no mail delivery as Purdue University's normal operations will be virtually shut down. Please make sure to drop off any outgoing packages to MMDC no later than **4:00 pm** on **Wednesday, December 23<sup>rd</sup>**. Normal operations will begin again on **Monday, January 4<sup>th</sup>**.

If you have FedEx or UPS packages that need to go out you will have to process them online and call FedEx or UPS directly to schedule a pickup.



### 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 ([fmcquern@purdue.edu](mailto:fmcquern@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/info\\_tech/index.php](http://www.eaps.purdue.edu/info_tech/index.php).

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

