Advanced Composite Materials for Engineers

Fridays, April 3 – April 24, 2009

At:

The National Institute for Aviation Research (NIAR)
Wichita State University

Sponsored by:
The College of Engineering
Wichita State University

Underwritten by:
Wired Grant

In Partnership with:

[Logos of Composites Kansas, Wired, Workforce Alliance of South Central Kansas, WorkforceONE, and KANSAS WORKS]
COURSE INFORMATION

Description: This is an advanced course for engineers, which focuses on the mechanics of laminated composites. The course will include discussion of different analysis methods, applications and limitations.

Who Should Attend?

Practicing Engineers in the area of stress analysis and related areas. A background in stress analysis/mechanics of materials is desirable.

Pre Requisite: Attendees must have completed the "Basics Composites for Engineers" Short Course or an equivalent course.

Dates: Fridays, beginning April 3 through April 24, 2009

Time: 8:00 a.m. - 5:00 p.m. each day.

Location: Wichita State University, National Institute for Aviation Research, Room 307

Parking: A university parking permit and campus map will be included with your registration confirmation letter. The permit will allow you to park in any student, faculty or staff parking stall on campus with the exception of those marked handicapped or reserved. Limited visitor parking is available on the north side of the NIAR building on a first come basis.

Registration Fee: The cost to participants is $400.00 each. Each participant’s registration fee will be subsidized through the WIRED grant in the amount of $1,000.00. Registration will be accepted on a first come basis. Registration includes course materials, breakfast, lunch and all breaks. Class size is limited. You may register and pay on-line at www.wichita.edu/conferences.

Cancellations and Refunds: If individuals register, but do not attend the class, their company will be billed the full cost of this class ($1,400.00).

Questions Regarding Registration:

Jana E. Woods
WSU Conference Office
1845 Fairmount, Campus Box 136
Wichita, KS 67260-0136
Phone: 316-978-6493; Fax: 316-978-3064
Email: jana.woods@wichita.edu
AGENDA and SCHEDULE

Friday, April 3
- Introductions
- Mechanics of Laminates
- Free Edge Stresses

Friday, April 10
- Ply Failure Theories
- Analysis of Notched Composites

Friday, April 17
- FEA of Composites
- Mechanical Testing Methods and Quality Control

Friday, April 24
- Analysis of Adhesive Joints
- Repair of Laminated Composites

INSTRUCTORS

K. Suresh Raju, Assistant Professor, Aerospace Engineering Dept.

Lamia Salah, Manager and Senior Research Engineer, NIAR

Melanie Violette, Assistant Professor, Department of Aerospace Engineering

Charles Yang, Associate Professor, Aerospace Engineering
### Advanced Composite Materials for Engineers

#### Registration Form

Wichita State University – Office of University Conferences, 1845 Fairmount, Campus Box 136, Wichita, KS 67260-0136

316-978-6493; Fax: 316-978-3064; Web: [http://www.wichita.edu/conferences](http://www.wichita.edu/conferences)  E-mail: jana.woods@wichita.edu

Federal Tax Id: 48-6029925

Company Name________________________  Company Phone _________________________

Mailing Address________________________________________________________________

City/State/Zip__________________________________________________________________

Registration/Billing Contact___________________________ E-mail: ______________________

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Registration Fee: $400.00/person    Total Due: _________________

Payment Method:

- [ ] Check  [ ] Purchase Order  [ ] Visa  [ ] Mastercard  [ ] American Express  [ ] Discover

CC#:_____________________________________________ Expiration Date: _________________

Security Code:______________
(3 digit code on back of card or 4 digits on front of American Express)

Name as printed on the card:______________________________________________________

Signature:_____________________________________________________________________

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**Accessibility:**

Wichita State University is committed to making programs accessible to persons with disabilities. If you wish to volunteer information regarding any special assistance you may need, please notify the Division of Continuing Education at: (316) 978-6493.

**Notice of Nondiscrimination:**

Wichita State University does not discriminate on the basis of race, religion, color, national origin, gender, age, marital status, sexual orientation, status as a Vietnam-era veteran, or disability. Any person having inquiries concerning this may contact the Office of Equal Opportunity, Wichita State University, 1845 Fairmount, St., Wichita, KS 67260-0145 (316) 978-3001

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**How to Register:**

**On-line at:** [http://www.wichita.edu/conferences](http://www.wichita.edu/conferences)

**By Fax:** 316-978-3064

**Mail:**  WSU – Office of University Conferences  
1845 Fairmount, Campus Box 136  
Wichita, KS 67260-0136

**Questions?**  
Contact Jana E. Woods at 316-978-6493