



Society for  
Experimental  
Mechanics

IOWA STATE  
UNIVERSITY  
College of Engineering

## 2020 Midwest Graduate Student Society for Experimental Mechanics (SEM) Symposium

**Hosted by Iowa State University's Mechanical Engineering Department**

### Dates

March 7, 2020 (Saturday) -- March 8, 2020 (Sunday)

### Symposium Overview

This symposium provides an opportunity for graduate (and undergraduate students) at Midwestern Institutions to network with their peers and faculty, while learning about the field of experimental mechanics.

### Sponsor

This symposium is financially supported by the Society for Experimental Mechanics (SEM).

- The Society for Experimental Mechanics is composed of international members from academia, government, and industry who are committed to interdisciplinary application, research and development, education, and active promotion of experimental methods to: (a) increase the knowledge of physical phenomena; (b) further the understanding of the behavior of materials, structures and systems; and (c) provide the necessary physical basis and verification for analytical and computational approaches to the development of engineering solutions.
- Visit the SEM Website: <http://sem.org>

### Organizing Committee

The organizing committee is comprised of the following members:

- Dr. Sarah A. Bentil (Chair)
- Anna Buchholz
- Nick Fetty
- Kim McFarland
- Ling Zhang (*event photographer*)



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Symposium

**Keynote Speaker**

**Dr. Christian Franck**

*Grainger Institute for Engineering Associate Professor  
PANTHER Program Director  
Department of Mechanical Engineering  
University of Wisconsin-Madison*

**Symposium Program**

Printable PDF Program  
Printable PDF Abstracts

**All presentations are oral.**

**March 7, 2020 (Saturday)**

*Location for Presentations: Marston Hall (Room 2155); 533 Morrill Road, Ames, IA 50011*

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<b>Time</b>	<b>Presenter</b>	<b>Title</b>
12:00 PM - 1:00 PM		<b>Registration Open</b> <i>Registration will close at 5:30 PM</i>
1:00 PM - 1:05 PM	<b>Dr. Sarah A. Bentil</b> <i>Iowa State University</i>	Opening Remarks
1:05 PM - 1:15 PM	<b>Dr. Caroline Hayes</b> <i>Chair, Mechanical Engineering Department Iowa State University</i>	Welcome Remarks
1:15 PM - 1:45 PM	<b>Keynote: Dr. Christian Franck</b> <i>University of Wisconsin-Madison</i>	Keynote Presentation

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1:45 PM - 2:30 PM

**Afternoon Session I**

*Moderator: Winnie Kiarie (Iowa State University)*

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1:45 PM - 2:00 PM

**Jenny Marsh**

*Iowa State University*

Advisor: Dr. Sarah A. Bentil

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2:00 PM - 2:15 PM

**Shalini Raj Unnikandam**

*Iowa State University*

Advisor: Dr. Ian Schneider

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2:15 PM - 2:30 PM

**Soheila Shabaniverki**

*Iowa State University*

Advisor: Dr. Jaime Juarez

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2:30 PM - 3:00 PM

**Coffee Break**

*Location: Marston Hall (Room 2110)*

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3:00 PM - 4:15 PM

**Afternoon Session II**

*Moderator: Kanika Lamba (Iowa State University)*

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3:00 PM - 3:15 PM

**Bishoy Dawood**

*Iowa State University*

Advisor: Dr. Ashraf Bastawros

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3:15 PM - 3:30 PM

**Edward J. Barron III**

*Iowa State University*

Advisor: Dr. Michael D. Bartlett

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3:30 PM - 3:45 PM

**Oluwaponmile Afuwape**

*Iowa State University*

Advisor: Dr. David Jiles and Dr. Sarah A. Bentil

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3:45 PM - 4:00 PM

**Vignesh Suresh**

*Iowa State University*

Advisor: Dr. Beiwen Li

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4:00 PM - 4:15 PM **Jialiang Tao**  
*University of Wisconsin - Madison*  
Advisor: Dr. Christian Franck

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4:15 PM - 4:45 PM **Group Photo & Coffee Break**  
*Location: Marston Hall (Room 2110)*

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4:45 PM - 5:45 PM **Afternoon Session III**  
*Moderator: Oluwaponmile Afuwape (Iowa State University)*

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4:45 PM - 5:00 PM **Dr. A B M Tahidul Haque**  
*Iowa State University*  
Advisor: Dr. Michael D. Bartlett

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5:00 PM - 5:15 PM **Ravi Tutika**  
*Iowa State University*  
Advisor: Dr. Michael D. Bartlett

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5:15 PM - 5:30 PM **Somashekar Viswanath**  
*University of Illinois at Urbana-Champaign*  
Advisor: Dr. James M. LaFave

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5:30 PM - 5:45 PM **Mehrnoosh Taghavimehr**  
*Iowa State University*  
Advisor: Dr. Reza Montazami

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5:45 PM - 6:00 PM **Walk to Memorial Union for Dinner**  
*Location: 2229 Lincoln Way, Ames, IA 50014*

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6:00 PM - 7:30 PM **Dinner**  
*Location: Campanile Room at Memorial Union*

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7:30 PM - 10:00 PM **Bowling**  
*Location: Lowest Level at Memorial Union*

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2020 Midwest Graduate Student Society for Experimental Mechanics (SEM)  
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**March 8, 2020 (Sunday)**

*Location for Presentations: Marston Hall (Room 2155); 533 Morrill Road, Ames, IA 50011*

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<b>Time</b>	<b>Presenter</b>	<b>Title</b>
8:00 AM - 9:00 AM		<b>Continental Breakfast</b> <i>Location: Marston Hall (Room 2200)</i>
9:00 AM - 10:15 PM		<b>Morning Session I</b> <i>Moderator: Mehrnoosh Taghavimehr (Iowa State University)</i>
9:00 AM - 9:15 AM	<b>Diwakar Awate</b> <i>Iowa State University</i> Advisor: Dr. Jaime Juarez	
9:15 AM - 9:30 AM	<b>Christopher Giuffre</b> <i>Iowa State University</i> Advisor: Dr. Ashraf Bastawros	
9:30 AM - 9:45 AM	<b>Dohgyu Hwang</b> <i>Iowa State University</i> Advisor: Dr. Michael D. Bartlett	
9:45 AM - 10:00 AM	<b>Nabhajit Goswami</b> <i>Michigan Technological University</i> Advisor: Dr. Stephen M. Morse	
10:00 AM - 10:15 AM	<b>Nitesh Arora</b> <i>University of Wisconsin-Madison</i> Advisor: Dr. Stephan Rudykh	

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10:15 AM - 10:45 AM

**Coffee Break**

*Location: Marston Hall (Room 2200)*

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10:45 AM - 11:20 AM

**Morning Session II**

*Moderator: Winnie Kiarie*

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10:45 AM - 11:00 AM

**Amir Niaraki**

*Iowa State University*

Advisor: Dr. Nicole N. Hashemi

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11:00 AM - 11:05 AM

**Dr. Sarah A. Bentil**

*Iowa State University*

Closing Remarks

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**Tour of the Student Innovation Center**

by

11:10 AM - 11:50 AM

**Dr. Jim Oliver**

*Director, Student Innovation Center at Iowa State University*

*Location: 538 Bissell Rd, Ames, IA 50011*

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