

## Energy Conversion and Conservation Division (ECCD)

### *Spring 2018 Newsletter*

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#### Greetings from the Division Chair

Greetings! Hope everyone had a very productive 2017-2018 academic year. I look forward to seeing many of you in Salt Lake City, UT, in June 2018. I invite you to attend the division's technical sessions; workshops; and the dinner. Also, please attend our division's business meeting, and get involved with the division's current and future activities. During the business meeting, we will honor the awardees for the best papers, and also our 2018 ASEE Fellow, Dr. Herbert Hess. Please join us in congratulating them. Please feel free to contact me if you have any questions.

Have a great summer!

Best wishes,

Madhuri Mitra, Ph.D

ASEE-ECC Division Chair

#### 2017 – 2018 Division Officers

##### Chair

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##### Vice Chair/Chair-Elect

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##### Program Chair

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##### Secretary/Treasurer

Dr. Ted Song  
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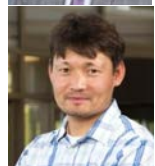
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## Highlights from Fall 2017

### Logo for ECCD

A logo, as shown below, has been designed for the Energy Conversion and Conservation Division.



ENERGY CONVERSION  
& CONSERVATION DIVISION

## 2018 Annual Conference ECCD Highlights

### [U216-SUNDAY WORKSHOP: Wind Energy Presentation and Activity for K-20 Outreach](#)

Sun. June 24, 2018 9:00 AM to 12:00 PM  
Room 258, Convention Center - Salt Palace  
Ticketed event: \$20.00 advanced registration and \$30.00 on site registration

### [U445A-Energy Innovation and Environmental Impact](#)

Sun. June 24, 2018 1:15 PM to 2:45 PM  
Room 150 D, Convention Center - Salt Palace

### [M316-ECCD Technical Session on Solar](#)

Mon. June 25, 2018 11:30 AM to 1:00 PM  
Room 258, Convention Center - Salt Palace

### [M416-ECCD Best Papers](#)

Mon. June 25, 2018 1:30 PM to 3:00 PM  
Room 255 A, Convention Center - Salt Palace

### [M5112A-Impacts of Sexual Harassment in Academic Science, Engineering, and Medicine](#)

Mon. June 25, 2018 3:15 PM to 4:45 PM  
Grand Ballroom I, Convention Center - Salt Palace

### [M516-Annual Business Meeting](#)

Mon. June 25, 2018 3:15 PM to 4:45 PM  
Room 250 F, Convention Center - Salt Palace  
Free ticketed event

### [M534-2018 Interdivisional Town Hall Meeting: Who's in the Driver's Seat of Engineering Education?](#)

Mon. June 25, 2018 3:15 PM to 4:45 PM  
Grand Ballroom J, Convention Center - Salt Palace  
Free ticketed event

### [T116-ECCD Technical Session on Energy Efficiency and Power Grid Security](#)

Tue. June 26, 2018 8:00 AM to 9:30 AM  
Room 255 A, Convention Center - Salt Palace

### [T316-ECCD Poster Session](#)

Tue. June 26, 2018 11:30 AM to 1:00 PM  
Exhibit Hall A B & C, Convention Center - Salt Palace

### [T416-Incorporation of Bioenergy in STEM Curricula](#)

Tue. June 26, 2018 1:30 PM to 3:00 PM  
Room 255 A, Convention Center - Salt Palace  
Free ticketed event

### [T716-Division Dinner at Mazza Middle Eastern Cuisine](#)

Social: ECCD  
Tue. June 26, 2018 7:00 PM to 9:00 PM  
Address: 912 East 900 South, Salt Lake City, UT 84105  
Ticketed event: \$35.00 advanced registration and \$45.00 on site registration

### [W2112-DISTINGUISHED LECTURE: A Voice for Change: Building an Inclusive Future with Local Policy and Engineers](#)

Wed. June 27, 2018 9:45 AM to 11:15 AM  
Room 155 E, Convention Center - Salt Palace

### [W316-ECCD Technical Session on Conservation and Optimization](#)

Wed. June 27, 2018 11:30 AM to 1:00 PM  
Room 258, Convention Center - Salt Palace

### [W334A-Meeting for Incoming/Current Program Chairs & Division Chairs](#)

Wed. June 27, 2018 11:30 AM to 1:00 PM  
Room 251 F, Convention Center - Salt Palace  
Free ticketed event

### [W416-The latest research and pedagogy in energy conversion and conservation](#)

Wed. June 27, 2018 1:30 PM to 3:00 PM  
Room 255 A, Convention Center - Salt Palace  
Free ticketed event

## 2018 ECCD Best Papers

**1st Best Paper:** Patrick A. Tebbe, Nazli Aslican Yilmaz Wodzinski, and Namyong Lee; Improving Vertical Axis Wind Turbine (VAWT) Performance.

**2nd Best Paper:** Glenn T. Wrate; Teaching Power Circuit Breaker Testing to Undergraduates.

**3rd Best Paper:** Sandip Das; Design and Implementation of MATLAB-Simulink Based Solar Cell Modeling and PV System Design Exercises for Advanced Student Learning.

## Division's Photos from 2017 ASEE Annual Conference



## Editor's Note

Hello everyone,

I am very happy to serve as the Newsletter Editor for the ASEE Energy Conversion and Conservation Division in 2017-2018. I am an Assistant Professor of Mechanical Engineering at the University of Akron, Ohio. I have been involved with teaching and research in the areas of electrochemical, mechanical and thermal energy conversion and storage systems. Please email me at [sfarhad@uakron.edu](mailto:sfarhad@uakron.edu) for any comments and suggestions.

Thank you!

Siamak Farhad, Ph.D.

We thank our sponsor for the  
breakfast sessions!

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