

## 2017/2018 Division & Class Report to the ACerS Board of Directors

Division/Class: Nuclear & Environmental Technology Division

Current Division/Class Officers: (complete as appropriate for your Division or Class)

Chair: **Jake Amoroso** (Savannah River National Laboratory)  
 Vice-chair: **Cory Trivelpiece** (Savannah River National Laboratory)  
 Secretary: **Phil Edmondson** (Oak Ridge National Laboratory)  
 Program Committee Chair: **Jarrold Crum** (Pacific Northwest National Laboratory)  
 Advisor: **Kevin Fox** (Savannah River National Laboratory)  
 ACerS Board Liaison: **William E. Lee** (Imperial College London)  
 PSCA Representative: **Levi Gardner** (University of Utah)

Incoming Division Officers: (complete as appropriate for your Division or Class)

Chair: **Cory Trivelpiece** (Savannah River National Laboratory)  
 Vice-chair: **Phil Edmondson** (Oak Ridge National Laboratory)  
 Secretary: **Kyle Brinkman** (Clemson University)  
 Program Committee Chair: **Jarrold Crum** (Pacific Northwest National Laboratory)  
 Advisor: **Kevin Fox** (Savannah River National Laboratory)

Summary of Meetings and Activities Held/To Be Held (from Oct. 2017 through Oct. 2018):

**MS&T17** (October 8-12, 2017, Pittsburgh, PA, USA): NETD organized "Materials for Nuclear Energy Applications" (53 talks and 5 poster) and "Materials Issues in Nuclear Waste Management" (25 talks and 1 poster) symposia.

**ICACC18** (January 21-26, 2018, Daytona Beach, FL, USA): NETD organized "Advanced Ceramics and Composites for Nuclear Fission and Fusion Energy" symposium (48 talks and 9 posters).

**MS&T18** (October 14-18, 2018, Columbus, OH, USA): NETD organized "Materials for Nuclear Applications and Extreme Environments" (31 talks and 3 posters) and "Materials Issues in Nuclear Waste Management" (22 talks and 1 poster) symposia.

Future Planned Meetings/Activities (from Nov. 2018 – October 2019):

**MS&T18** (October 14-18, 2018, Columbus, OH, USA): NETD organized "Materials for Nuclear Applications and Extreme Environments" (31 talks and 3 posters) and "Materials Issues in Nuclear Waste Management" (22 talks and 1 poster) symposia.

**ICACC19** (January 27-February 1, 2019, Daytona Beach, FL, USA): NETD organized "Development and Applications of Advanced Ceramics and Composites for Nuclear Fission and Fusion Energy Systems" symposium (50 abstracts submitted).

**PACRIM13** (October 27-31, 2019, Ginowan City, Okinawa, Japan): NETD organizes a symposia, "Ceramic Materials for Nuclear Energy" in partnership with the Glass and Optical Materials Division.

**MS&T19** (September 29-October 3, 2019, Portland, OR, USA): NETD sponsored three symposia proposals: "Materials Issues in Nuclear Waste Management"; "Materials for Nuclear Applications" (co-

sponsored with the Engineering Ceramics Division); “Thermodynamics of Materials in Extreme Environments” (co-sponsored with Basic Science Division).

**New Initiatives/Opportunities:**

A major change regarding the Best Paper Award described under Article VIII; V in the Constitution's Procedure Manual and also in the NETD Rules Article VII, section 7 in Article VII, section 7 was made. Specifically, the name and process for selecting this award was changed. The new award is named “The Outstanding Student Researcher Award” and will be presented annually at the society conference. Concurrently, the NETD Best Student Presentation Award described under Article VIII; W in the Constitution's Procedure Manual was removed.

Action Items for ACerS Board Consideration at October 13, 2018 meeting: N/A

Issues/Concerns: N/A

**Additional Items of Note:**

The D.T. Rankin Award will be presented to Dr. Allen Apblett during the general business meeting (Monday, October 15<sup>th</sup>) for exemplary service to the Division. As a part of this award, Dr. Apblett will present an invited lecture in the symposium “Materials Issues in Nuclear Waste Management” at the MS&T18 conference.

The Outstanding Student Researcher Award will be presented to Levi Gardner during the general business meeting (Monday, October 15<sup>th</sup>) for his paper titled “Immobilization of High-Level Waste Salt in Dechlorinated Zeolite Waste Forms”. As a part of this award, Mr. Gardner will present his research in the “Materials Issues in Nuclear Waste Management” at the MS&T18 conference.

Student stipends of \$500 were awarded at ICACC'18 and additional stipends will be awarded for MS&T18.

Financial Statement: (Including year-end summary of expenditures from the Division's Funds)

Attached

Submitted By: Jake Amoroso