



**2013/2014 Division & Class Report
to the
ACerS Board of Directors**

Division/Class: **Nuclear & Environmental Technology Division**

Current Division/Class Officers:

Chair:	Ram Devanathan (Pacific Northwest National Laboratory)
Vice-chair:	Josef Matyas (Pacific Northwest National Laboratory)
Secretary:	Raghunath Kanakala (University of Idaho)
Program Committee Chair:	Yutai Katoh (Oak Ridge National Laboratory)
Division Advisor:	Linda Jones (Alfred University)

Incoming Division Officers:

Note: NETD will change officers at the ACerS Annual Meeting in October (MS&T14).

Chair:	Josef Matyas (Pacific Northwest National Laboratory)
Vice chair:	Raghunath Kanakala (University of Idaho)
Secretary:	Yutai Katoh (Oak Ridge National Laboratory)
Program Committee Chair:	Jake Amoroso (Savannah River National Laboratory)
Division Advisor:	Linda Jones (Alfred University)

Summary of Meetings and Activities Held/To Be Held (from Oct. 2013 through Oct. 2014):

ICACC'14: Organized symposium on "Advanced Ceramics and Composites for Sustainable Nuclear Energy and Fusion Energy" (44 presentations)

MS&T13: Organized symposia on "Materials Development and Degradation Management for Nuclear Applications" and "Materials Issues in Nuclear Waste Management in the 21st Century"

Future Planned Meetings/Activities (from Nov. 2014 – October 2015):

ICACC'15 (January 25-30, 2015, Daytona Beach, FL, USA): NETD will co-organize Symposium 13, "International Symposium on Advanced Ceramics and Composites for Sustainable Nuclear Energy and Fusion Energy". The symposium has received an excellent response with over 60 abstracts submitted.

MS&T14 (October 12-16, 2014, Pittsburgh, PA, USA): NETD will organize two symposia "Materials Development for Nuclear Applications and Extreme Environments" and "Materials Issues in Nuclear Waste Management in the 21st Century". The symposia have received excellent responses with about 50 abstracts accepted for each.

PACRIM-11 (August 30-September 4, 2015, Jeju Island, South Korea) NETD will contribute to organization of a symposium on "Ceramics for Innovative Nuclear Energy Systems."

CMCEE-11 (June 14-19, 2015, Vancouver, Canada): NETD will contribute to organization of a symposium on "Material Science and Technologies for Advanced Nuclear Fission and Fusion Energy,"

New Initiatives/Opportunities:

NETD used social networking and online communities to recruit students and new members (Twitter, LinkedIn and Facebook thanks to Tricia Freshour)

NETD leadership is involved in the TIG on Multiscale Modeling

Action Items for ACerS Board Consideration at October 11, 2014 meeting:

None

Issues/Concerns:

None

Additional Items of Note:

D. T. Rankin Award is presented to Dr. Jim Marra (SRNL) for exemplary service to the Nuclear & Environmental Technology Division (NETD) of The American Ceramic Society. As part of this award, Dr. Marra will present an invited lecture "*Plutonium Disposition – The Saga*" at symposium "Materials Issues in Nuclear Waste Management in the 21st Century" in the session "Recent Developments and Progress in Nuclear Waste Vitrification II." This presentation is scheduled at 3:40 p.m. on Monday October 13 in the room 413.

NETD Best Paper Award goes to Dr. Pavel Hrma (PNNL) for his paper "*Experimental investigation and mathematical modeling of cold cap behavior in high-level-waste glass melter*" presented at MS&T'13 conference in Montreal at symposium "Materials Issues in Nuclear Waste Management in the 21st Century".

Two student stipends of \$500 each will be awarded at MS&T14.

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

NETD is in excellent financial shape with a balance of \$2466

Submitted By: Ram Devanathan, Chair, NETD (ram.devanathan@pnnl.gov)