

Monday, May 11 Afternoon Panel Session - NSUF User Access Awards: Structural Materials

	Presenter	Awarded Institution	Title/objective	Material	Processing/irradiation	Testing /characterization
1	Haiming Wen (10537)	<i>Missouri University of S&T</i>	Enhancing Irradiation Tolerance of Steels via Nanostructuring by Innovative Manufacturing Techniques	SS304, SS316, Grade 91, Kanthal D (FeCrAl alloy)	HPT, ECAP / neutron irradiation	EBSD, TEM, hardness, tensile, X-ray, APT,
2	Haozheng Qu (24397)	<i>General Electric Research</i>	Assessment of Irradiated Microstructure and Mechanical Properties of FeCrAl Alloy Fabrication Routes	C26M FeCrAl Alloy	Wrought/ AM/ PM-HIP/ neutron irradiation	TEM, EELS, STEM-EDS, APT, microhardness
3	Todd Sherman (RTE-4986)	<i>Idaho National Laboratory</i>	Post Irradiation Examination of High Entropy Carbides	(Ti, V, Zr, Nb, Ta, W)C	Heavy ion irradiation	X-ray, EBSD, EDS, TEM, Nanoindentation, Thermal Diffusivity and Conductivity
4	Xingyu Liu (RTE 5164)	<i>Penn State University</i>	Investigating effect of dose rate on microstructure evolution in 800H alloy at high doses	800H	Ion irradiation	TEM/ cavity, swelling
5	Benjamin Mejia Diaz (RTE 4994)	<i>Texas A&M University</i>	Hybrid proton and heavy ion irradiation for void swelling testing	316L	Proton and heavy ion irradiation	TEM/ void, swelling