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1a-Ferriitic Steels	14	Mengtian Liang, Yanyun Zhao, Shaojun Liu* Yican Wu, Qunying Huang, FDS Team	IMPROVEMENT OF LOW CYCLE FATIGUE PROPERTIES OF CLAM STEEL BY GENERATING A GRADIENT	shaojun.liu@fds.org.cn	China	P1
1a-Ferriitic Steels	16	Joonoh Moon1*, Chang-Hoon Lee1, Tae-Ho Lee1, Seong-Jun Park1, Hyoung Chan Kim2	Development of Ta-Ti containing RAFM steel and its weldability	mjo99@kims.re.kr	South Korea	P1
1a-Ferriitic Steels	18	Lei Peng1*, Yao Xie1, Wangzi Zhang1, Hongbin Liao2, Jingyi Shi3	Temperature impact on fracture toughness of CLF-1 steel	penglei@ustc.edu.cn	China	P1
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1c Ceramics	8	Yutai Katoh1*, Takaaki Koyanagi1, Mohamed Sawan2, Yong Dai3	STIP V IRRADIATION OF SILICON CARBIDE CERAMICS AND COMPOSITES	katohy@ornl.gov	US	P1
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1c Ceramics	13	Yevhen Zayachuk1*, David Armstrong1, Christian Deck2, Peter Hosemann3	MICROMECHANICAL STUDY OF RADIATION AND TEMPERATURE EFFECTS ON LOCAL MECHANICAL	yevhen.zayachuk@materials.ox.ac.uk	EU	P1
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1d Tungsten	1	Monica Ferraris <sup>1</sup> , Sergio Perero <sup>1</sup> , Alice Scarpellini <sup>2</sup> , Simon Heuer <sup>3</sup>	CO-SPUTTERED W/FE INTERLAYERS FOR JOINING TUNGSTEN TO STEEL	monica.ferraris@polito.it	EU	P1
1d Tungsten	4	Kang Wang <sup>1</sup> , Xiang Zan <sup>1,2*</sup> , Laima Luo <sup>1,2</sup> , Yucheng Wu <sup>1,2</sup>	MICROSTRUCTURE AND PHYSICAL PROPERTY CHANGES DURING RECRYSTALLIZATION	zanx@hfut.edu.cn	China	P1
1d Tungsten	9	H. Noto <sup>1*</sup> , Y. Hishinuma <sup>1</sup> , T. Muroga <sup>1</sup> , H. Benoki <sup>2</sup>	Effect of thermal changes of microstructure on mechanical properties of W-1.1wt%TiC	muroga@nifs.ac.jp	Japan	P1
1d Tungsten	11	Kazutoshi Tokunaga <sup>1*</sup> , Satoru Matsuo <sup>1</sup> , Hiroaki Kurishita <sup>2</sup> , Takeshi Toyama <sup>3</sup> , Makoto Hasegawa <sup>1</sup> and Kazuo Nakamura <sup>1</sup>	Fatigue pre-cracking and fracture toughness evaluations in an ITER-grade rolled tungsten plate	tokunaga@riam.kyushu-u.ac.jp	Japan	P1
1d Tungsten	14	Magdalena Galatanu <sup>1*</sup> , Monica Enculescu <sup>1</sup> , Andrei Galatanu <sup>1</sup> , Jens Reiser <sup>2</sup>	W-W laminates processed by FAST	gala@infim.ro	EU	P1
1d Tungsten	15	Thorsten Loewenhoff <sup>*</sup> , Daniel Dorow-Gerspach, Gerald Pintsuk, Marius Wirtz	Repair and regeneration of plasma-facing tungsten surfaces	T.Loewenhoff@fz-juelich.de	EU	P1
1d Tungsten	16	Shunsuke Makimura <sup>1*</sup> , Hiroaki Kurishita <sup>1</sup> , Koichi Niikura <sup>2</sup> , Hun-Chea Jung <sup>2</sup> , Masahiro Onoi <sup>2</sup> , Yutaka Nagasawa <sup>2</sup> , Tatsuaki Sakamoto <sup>3</sup> ,	DEVELOPMENT OF TUNGSTEN ALLOY, TFGR W-1.1%TiC, AS ADVANCED TARGET	shunsuke.makimura@kek.jp	Japan	P1
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1d Tungsten	18	Shuhei Nogami <sup>1*</sup> , Akira Hasegawa <sup>1</sup> , Jens Reiser <sup>2</sup> , Michael Rieth <sup>2</sup> , Shotaro Watanabe <sup>1</sup> , Hiroyuki Noto <sup>3</sup> , Takuya Nagasaka <sup>3</sup> , and Takeshi Miyazawa <sup>1</sup>	DEVELOPMENT OF DISPERSION STRENGTHENED TUNGSTEN ALLOYS AND THEIR	shuhei.nogami@qse.tohoku.ac.jp	Japan	P1
1d Tungsten	19	Kwangmo Park <sup>1*</sup> , Sangpill Lee <sup>1</sup> , Jinkyung Lee <sup>1</sup> , Moonhee Lee <sup>2</sup> , Sungwon Kim <sup>2</sup>	Effect of sintering temperature and titanium content on the characterization of tungsten	rhkdah22@gmail.com	South Korea	P1
1d Tungsten	20	Sanghyun Jung <sup>1*</sup> , Sangpill Lee <sup>1</sup> , Jinkyung Lee <sup>1</sup> , Moonhee Lee <sup>2</sup> , Seungkuk Hwang <sup>3</sup>	Solid State Sintering of W/W Composites and Their Characteristics	14876@deu.ac.kr	South Korea	P1
1d Tungsten	24	Zhuoming Xie <sup>1*</sup> , Tao Zhang <sup>2</sup> , Rui Liu, Junfeng Yang <sup>1</sup> , Xuebang Wu <sup>1</sup> , Qianfeng Fang <sup>1</sup> , Changsong Liu <sup>1</sup>	Fabrication of high dense dual-nanostructured tungsten alloys with exceptional thermal stability	zmxie@issp.ac.cn	China	P1
1e Vanadium	1	Kazuki Saito <sup>1*</sup> , Takuya Nagasaka <sup>1,2</sup> , Makoto Kobayashi <sup>1,2</sup> , Jingjie Shen <sup>2</sup> , Gaku Yamazaki <sup>1</sup> , Valentyn Tsisar <sup>2,3</sup> , Takeo Muroga <sup>1,2</sup>	Effect of nitrogen impurity and alloy composition on mechanical properties of low-activation vanadium alloy	saito.kazuki@nifs.ac.jp	Japan	P1
1e Vanadium	3	M. Khalid Hossain <sup>1,2*</sup> , Kenichi Hashizume <sup>1**</sup>	VISUALIZATION OF HYDROGEN ISOTOPES DISTRIBUTION IN YTTRIUM AND COBALT	khalid.baec@gmail.com	Japan	P1
1e Vanadium	7	Teruya Tanaka <sup>1, 2*</sup> , Takuya Nagasaka <sup>1, 2</sup> , Takeo Muroga <sup>1, 2</sup> , Masanori Yamazaki <sup>3</sup> , Takeshi Toyama <sup>3</sup>	ACTIVATION ANALYSIS FOR THE REFERENCE LOW-ACTIVATION VANADIUM ALLOY NIFS-HEAT-2	teru@nifs.ac.jp	Japan	P1
1e Vanadium	8	Ran Wei, Pengfei Zheng, Haiying Fu, Liwen Zhang	EVOLUTION OF DISPERSION PARTICLES NEAR JOINT INTERFACE OF HIPED V-4CR-4Ti ALLOYS	weiran@swip.ac.cn	China	P1
1e Vanadium	9	Paul J. Barron <sup>1*</sup> , Michael Preuss <sup>1</sup> , Mike J. Gorley <sup>2</sup> , and Ed J. Pickering <sup>1</sup>	Towards V-based High Entropy Alloys for Fusion Blanket Applications	paul.barron@manchester.ac.uk	EU	P1

1e Vanadium	10	Takuya Nagasaka1, 2*, Jingjie Shen1, Teruya Tanaka1, 2, Makoto Kobayashi1, 2, Takeo Muroga1, 2, Akio Sagara1, Kazuki Saito2, Valentyn	NO MORE THAN TEN YEARS FOR VANADIUM ALLOY RECYCLING AFTER THE USE IN FUSION	nagasaka@nifs.ac.jp	Japan	P1
1e Vanadium	11	Ken-ichi Fukumoto1*, Koji Fujita1, Masanori Yamazaki2	Effect of Temperature History on Swelling behavior of Vanadium Binary Alloy Irradiated in a Fast Reactor	fukumoto@u-fukui.ac.jp	Japan	P1
1f-OSA	1	Tatsuya Fukushi1*, N. Hashimoto2	Research and development of High Entropy Alloys for nuclear reactor	hasimoto@eng.hokudai.ac.jp	Japan	P1
1f-OSA	5	Yu Lei1*, Naoyuki Hashimoto2	Study on Cu-based High Entropy Alloys for Nuclear Fusion Application	leiyu@eng.hokudai.ac.jp	Japan	P1
1f-OSA	6	Yutao Zhai*, Bo Huang, Xiaodong Mao, Shaojun Liu, Yican Wu, Qunying Huang, FDS Team	MICROSTRUCTURES AND TENSILE PROPERTIES OF 316L STEEL PRODUCED BY SELECTIVE LASER MELTING	yutao.zhai@fds.org.cn	China	P1
1f-OSA	8	Yukinori Yamamoto*, Roger G. Miller, Arthur F. Rowcliffe	DESIGN OF ADVANCED BAINITIC STEELS WITH IMPROVEMENT IN CROSS-WELD PROPERTIES	yamamotoy@ornl.gov	US	P1
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2a-PFM	1	R. Arredondo1, K.Schmid1, A. Houben2, W. Jacob1	Modelling of gas-driven deuterium permeation in EUROFER	rodrigo.arredondo@ipp.mpg.de	EU	P1
2a-PFM	2	F. Effenberg1*, S. Brezinsek2, Y. Feng3, H. Frerichs1, J. Geiger3, M. Jakubowski3, R. König3, M. Krychowiak3, J.D. Lore4, D. Naujoks3,	Development of impurity seeding for divertor power flux handling in Wendelstein 7-X long-pulse scenarios	effenberg@wisc.edu	US	P1
2a-PFM	3	Heung Nam Han1*, Yeonju Oh 1, Nojun Kwak1, Ki-Baek Roh2, Gon-Ho Kim2, and Hyoung Chan Kim3	Materials properties and characterization of tungsten developed by spark plasma sintering	hnhan@snu.ac.kr	South Korea	P1
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2a-PFM	5	R. Mateus1, M.B. Costa2, J.P.S. Loureiro1, R. Gomes1, T. Pereira1, H. Alves1, H. Figueiredo1, C. Silva1, N. Catarino1, M. Dias1, R.C. da Silva1,	DEUTERIUM RETENTION INVESTIGATIONS IN Li-Sn ALLOYS	ealves@ctn.tecnico.ulisboa.pt	EU	P1
2a-PFM	7	Elisa Sal1,2, Carmen García-Rosales1,2*, Aida Calvo1,2, Karsten Schlueter3,4, Iñigo Iturriza1,2, Rudolf Neu3,4, Gerald Pintsuk5	Microstructure, oxidation behavior and thermal shock resistance of self-passivating W-Cr-Y-Zr alloys	cgrosales@ceit.es	EU	P1
2a-PFM	8	Benjamin Spilker*1, Gerald Pintsuk1, Marius Wirtz1, Jonathan H. Yu2, Miroslaw Zlobinski1	Laser-Induced Desorption of Transient Thermally Damaged Beryllium	b.spilker@fz-juelich.de	EU	P1

2a-PFM	9	Marlene I. Patino*, Russell P. Doener, George R. Tynan	Al enrichment of AlN and Al <sub>2</sub> O <sub>3</sub> during D plasma exposure	m2patino@ucsd.edu	US	P1
2a-PFM	10	Xiang Chen1*, Lauren M. Garrison1, Logan N. Clowers1, Josina W. Geringer1, Tatsuya Hinoki2, Yutai Katoh1	FRACTURE TOUGHNESS CHARACTERIZATION OF NEUTRON IRRADIATED W AND W COMPOSITE	chenx2@ornl.gov	US	P1
2a-PFM	11	Dwaipayan Dasgupta1*, Robert D. Kolasinski2, Chun-Shang Wong2, Dimitrios Maroudas3, Brian D. Wirth1,4	MODELING OF SURFACE MORPHOLOGICAL EVOLUTION OF PLASMA-FACING TUNGSTEN	ddasgupta@utk.edu	US	P1
2a-PFM	12	Dwaipayan Dasgupta1*, Robert D. Kolasinski2, Sophie Blondel1, Dimitrios Maroudas3, Brian D. Wirth1,4	MODELING OF HELIUM RETENTION AND BUBBLE BURSTING IN LOW-ENERGY HELIUM	ddasgupta@utk.edu	US	P1
2a-PFM	17	Umberto M. Ciucani1*, Hanns Gietl2, Lea Haus1, Johann Riesch2, Wolfgang Pantleon1	Microstructural arrangement and texture evolution in single tungsten fibre-reinforced tungsten:	umciuc@mek.dtu.dk	EU	P1
2a-PFM	19	Z.J. Bergstrom1*, L. Yang1, B.D. Wirth1	Hydrogen Trapping and Segregation Strength of Helium Interfaces in BCC Tungsten and Iron	zjbergstrom@gmail.com	US	P1
2a-PFM	20	Rui Liu1*, Xiong Yao 1, 2, Zhuoming Xie 1, Tao Zhang1, Xianping Wang 1, Ting Hao 1, Qianfeng Fang 1, 2, Changsong Liu 1, Youyun Lian 3, Fan Feng 3, Xiang	Development of nanostructured K-doped W-ZrC alloys with enhanced mechanical properties	liurui@issp.ac.cn	China	P1
2a-PFM	21	Steffen Antusch1*, Simon Bonk1, Thomas Hanemann1, Jan Hoffmann1, Alexander Klein1, Dorit Nötzel1, Kilian Pursche1, Michael Rieth1	3D PRINTING OF FUSION RELEVANT MATERIALS	steffen.antusch@kit.edu	EU	P1
2a-PFM	60	Takuro Wada1*, Akihiro Togari1, Moeko Nakata1, Shota Yamazaki1, Ayaka Koike1, Fei Sun2, Mingzhong Zhao1, Yuji Hatano3,	INFLUENCE OF DAMAGE DEPTH DISTRIBUTION FORMED BY IRON AND HYDROGEN ION ON	wada.takuro.15@shizuoka.ac.jp	Japan	P1
2a-PFM	63	Robert D. Kolasinski1*, Aaron Engel1, Dwaipayan Dasgupta2, Chun-Shang Wong1, Josh A. Whaley1, Dean A. Buchenauer1, Dimitrios Maroudas3,	In-situ spectroscopic ellipsometry for characterizing plasma-surface interactions	rkolasi@sandia.gov	US	P1
2a-PFM	72	Chang-Chun Ge*, §, Qing-Zhi Yan§, Xiao-Na Ren§	Progress of Research on Plasma Facing Materials for Fusion Reactors in INM, USTB	ccge@mail.ustb.edu.cn	China	P1
2a-PFM	73	Xiao-Na REN1, *, Min XIA1, §, Qing-Zhi YAN1, §, Chang-Chun GE1, §	Tungsten Nanowires Prepared for Bulk Tungsten Strengthening	renxn@ustb.edu.cn	China	P1
2a-PFM	74	Michael Duerrschnabel1*, Birger Holtermann1, Ute Jaentsch1, Mirjam Hoffmann1, Jan Hoffmann1, Siegfried Baumgaertner1, Steffen Antusch1,	Characterization of powder injection molded tungsten composites via electron microscopic methods	michael.duerrschnabel@kit.edu	EU	P1
2b HHF + CU	3	M. Eddahbia, M.A. Mongea, b, * R. Domínguez Reyesa, B. Savoinia, b, A. Muñoz, a, b	MICROSTRUCTURE AND MECHANICAL PROPERTIES OF A NOVEL COPPER COMPOSITE	mmonge@fis.uc3m.es	EU	P1
2b HHF + CU	4	A.A. Suvorova*, O.V. Goslavsky, A.B. Korostelev, M.N. Sviridenko, S.E. Chomyakov	EFFECT OF THE TEMPERATURE OF HOT ISOSTATIC PRESSING ON THE STRUCTURE AND	suvorova@nikiet.ru	Russia	P1
2b HHF + CU	5	Y. Hishinuma1,2), B. Ma2), B. Huang3), H. Noto1,2), Y. Liu4), R. Kasada4), S. M. S. Aghamiri5), N. Oono5), S. Ukai5) and T. Muroga1,2)	Effects of Mechanical Alloying parameters on the Cu-Y <sub>2</sub> O <sub>3</sub> ODS alloys synthesized with MA-HIP process	hishinuma.yoshimitsu@nifs.ac.jp	Japan	P1
2b HHF + CU	6	Shuming Wang1*, Jiangshan Li1, Yanxin Wang1, Changchun Ge1*	Thermal shock behavior analysis of tungsten-armored plasma facing components	wangshuming@ustb.edu.cn	China	P1

2b HHF + CU	7	Dahuan Zhu 1*, Changjun Li 1,2, Junling Chen 1, Rui Ding 1, Baoguo Wang 1 and EAST Team	Thermal induced cracking and melting on ITER-like W/Cu PFMC in EAST	dhzhu@ipp.ac.cn	China	P1
2b HHF + CU	10	Yuchen Liu1*, Sosuke KONDO1, Hao YU1, Haoran WANG1, Ryuta KASADA1, Kiyohiro YABUUCHI2, Takeo MUROGA3, Shigeharu UKAI4	Evaluation of irradiation hardening of ion-irradiated ODS-Cu Alloy using ultra-small testing technologies (USTT)	liu.yuchen.s1@dc.tohoku.ac.jp	Japan	P1
2b HHF + CU	11	Marta Dias 1*, Francisco Antão 1, José. B. Correia 2, Marcin Rosinski 3, R. C da Silva1, António P. Gonçalves 4, Patrícia Carvalho 5,6, Eduardo Alves 1	SYNTHESIS AND CHARACTERIZATION OF WxTaCrNbV HIGH ENTROPY ALLOYS	marta.dias@ctn.ist.utl.pt	EU	P1
5a-Defect Production (Could also be 7a)	9	Barbara Wielunska1, Matej Mayer1, Thomas Schwarz-Selinger1, Werner Egger2, Lukasz Ciupinski3, Tomasz Plocinski3	RADIATION DAMAGE AND DEUTERIUM RETENTION IN TUNGSTEN	Barbara.Wielunska@ipp.mpg.de	EU	P1
5a-Defect Production	10	F. Borgognonia*, V. Burwitzb, W. Eggerc, T. Schwarz-Selingerb, M. Vadrucchia, M. Zibrovb, L. Picardia	Vacancy creation on tungsten through MeV electron-beam irradiation	fabio.borgognoni@enea.it	EU	P1
5a-Defect Production	18	Takaaki Koyanagi*, Hsin Wang, Yoonjo Lee, Yutai Katoh	EFFECTS OF NEUTRON IRRADIATION ON ELECTRICAL PROPERTIES OF HIGH-PURITY SiC CERAMICS	koyanagit@ornl.gov	US	P1
5a-Defect Production	20	M. Zibrov1*, W. Egger2, M. Mayer1	HIGH TEMPERATURE RECOVERY OF RADIATION DEFECTS IN TUNGSTEN AND ITS EFFECT	Mikhail.Zibrov@ipp.mpg.de	EU	P1
5a-Defect Production	22	Rebecca L. Gray1*, Michael J.D. Rushton2, Samuel T. Murphy1	RADIATION DAMAGE IN REBCO MATERIALS FOR COMPACT FUSION REACTORS	r.gray@lancaster.ac.uk	EU	P1
5a-Defect Production	23	Ningning Zhang1, Yujuan Zhang1*, Changchun Ge1,*	THEORETICAL INSIGHT INTO THE INFLUENCES OF NITROGEN/ZIRCONIUM AND VACANCY DEFECTS ON THE	ccge@mater.ustb.edu.cn	China	P1
5a-Defect Production	24	Chase N. Taylor1*, Masashi Shimada1, Yasuhisa Oya2	CHARACTERIZATION OF BULK DEFECTS IN NEUTRON IRRADIATED TUNGSTEN BY POSITRON ANNIHILATION	chase.taylor@inl.gov	US	P1
5c Mechanical Properties	13	H. Watanabe*a, T. Irie b,Y. Gouya b, Y. Kamada c	Effects of Mn, Ni addition on radiation induced dislocation loops and solute clusters of Fe-based model alloys under	watanabe@riam.kyushu-u.ac.jp	Japan	P1
5c Mechanical Properties	14	W. Q. Chen1,2, X. Z. Xiao3, K. L. Li1, T. W. Morgan4, W. Liu1,* and Y. L. Chiu2	Mechanical properties of tungsten under hydrogen plasma exposure at different temperature	cwq15@mails.tsinghua.edu.cn	China	P1
5c Mechanical Properties	15	Hans-Christian Schneider, Alexander Valentin Brabänder, Michael Klimenkov	Thermally Activated Recovery of Neutron-induced Defects and Mechanical Properties of Reduces Activation	hans-christian.schneider@kit.edu	EU	P1
5c Mechanical Properties	16	Zhouran Zhang1*, Patrick S. Grant1, David E.J. Armstrong	Radiation-induced segregation, defect evolution and mechanical behavior of Y-doped CrMnFeCoNi High-	zhouran.zhang@materials.ox.ac.uk	EU	P1
5c Mechanical Properties	18	Takuya Yamamoto1*, Dhriti Bhattacharyya2, Emmanuelle E. Marquis3, Tarik A. Saleh4, Stuart A. Maloy4 and G. Robert Odette1	Microstructure Based Predictions of Hardening in Irradiated Fe-Cr Alloys and Tempered Martensitic Steels	yamataku@ucsb.edu	US	P1
5c Mechanical Properties	19	S. Hoque1, C. Hardie2, E. Tarleton1, D. Armstrong1, A. Wilkinson1	MICROTENSILE TESTING TO EXAMINE IRRADIATION RESPONSE OF IRON-CHROMIUM FOILS	shahnaz.hoque@materials.ox.ac.uk	EU	P1
5c Mechanical Properties	20	Viacheslav Kuksenko1*, C. Densham2, P. Hurh3, S. Roberts4	MICROMECHANICAL INVESTIGATION OF IRRADIATION EFFECTS IN BERYLLIUM	slava.kuksenko@ukaea.uk	EU	P1

5c Mechanical Properties	21	R. G. Abernethy <sup>a,b</sup> , M. J. Lloyd, A. Giannattasio <sup>a</sup> , J.D. Murphy <sup>a,c</sup> , O. Wouters <sup>d</sup> , M. Gilbert <sup>b</sup> , M. Klimenkova <sup>e</sup> , M. Riethe <sup>e</sup> , C. Hardie <sup>b</sup> , P.	Comparing irradiation damage in ion and neutron irradiated tungsten	Robert.abernethy@materials.ox.ac.uk	EU	P1
6b-MMP	3	Fredric Granberg <sup>1*</sup> , Andrey Litnovsky <sup>2</sup> , Kai Nordlund <sup>1</sup>	ON THE SPUTTERING OF MOLYBDENUM SURFACES	fredric.granberg@helsinki.fi	EU	P1
6b-MMP	4	Fredric Granberg <sup>1*</sup> , Joonas Jussila <sup>1</sup> , Kai Nordlund <sup>1</sup>	EFFECT OF SURFACE ORIENTATION ON THE SPUTTERING YIELD OF TUNGSTEN SURFACES	fredric.granberg@helsinki.fi	EU	P1
6b-MMP	5	Max Boleininger <sup>1*</sup> , Thomas D Swinburne <sup>2</sup> , and Sergei L Dudarev <sup>1</sup>	A CONTINUUM NON-SINGULAR THEORY OF THERMALLY FLUCTUATING DISLOCATIONS	max.boleininger@ukaea.uk	EU	P1
6b-MMP	6	Yang Li <sup>1</sup> , Max Boleininger <sup>2*</sup> , Christian Robertson <sup>1</sup> , Laurent Dupuy <sup>1</sup> , and Sergei L Dudarev <sup>2</sup>	FUNDAMENTAL REACTIONS BETWEEN PRISMATIC LOOPS IN STOCHASTIC DISLOCATION DYNAMICS	max.boleininger@ukaea.uk	EU	P1
6b-MMP	7	Roshan Rajakrishnan <sup>*</sup> , Ermile Gaganidze, Jarir Aktaa	Modelling the post-yield and post-necking behaviour of F/M steel	roshan.rajakrishnan@kit.edu	EU	P1
6b-MMP	8	Hu Jia-ju <sup>*</sup> , Zhang bin, Liu Cong, Chen Yixue	COMPUTATIONALLY OPTIMIZED MULTI-GROUP CROSS SECTION DATA COLLAPSING FOR	hujiaju123456@163.com	China	P1
6b-MMP	9	Dmitry D. Demidov <sup>1*</sup> , Alexander B. Sivak <sup>1</sup> , Polina A. Sivak <sup>1</sup>	ENERGETIC, DIFFUSIONAL AND DISSOCIATIVE CHARACTERISTICS OF SELF-DIFFUSING INTERSTITIALS IN BCC FE	Demidov_DN@nrcki.ru	Russia	P1
6b-MMP	10	Michael P. Higgins <sup>1*</sup> , Chaoming Yang <sup>2</sup> , Liang Qi <sup>2</sup> , Fei Gao <sup>1</sup>	Multiscale modelling of dislocation-nanocluster interactions in Fe-Y2O3: from molecular dynamics to	mphigs@umich.edu	US	P1
6b-MMP	11	Y. Igitkhanov <sup>1,2*</sup> , B. Bazylev <sup>1,2</sup> and S. Pestchanyi <sup>1</sup>	THE EFFECT OF THE RUNAWAY ELECTRONS ON THE DEMO WALL EROSION	juri.igitkhanov@partner.kit.edu	EU	P1
6b-MMP	12	Lixia Liu <sup>1</sup> , Yangchun Chen <sup>2</sup> , Wangyu Hu <sup>1</sup> , Fei Gao <sup>3,1</sup> , Huiqiu Deng <sup>2*</sup>	ATOMISTIC SIMULATIONS OF TRANSMUTATION-PRODUCED REINTERACTION WITH GRAIN	hqdeng@hnu.edu.cn	China	P1
6b-MMP	13	Juan P. Balbuena <sup>1*</sup> , Andrea Sand <sup>2</sup> , Carolina Björkas <sup>2</sup> , Kai Nordlund <sup>2</sup> , Robin Scäublin <sup>3</sup> , Maria J. Caturla <sup>1</sup>	Simulation of dislocation loops formation after ion irradiation in UHP-Fe thin films	juanpablo.balbuena@ua.es	EU	P1
6b-MMP	15	Giridhar Nandipati <sup>1*</sup> , Wahyu Setyawan <sup>1</sup> , Kenneth J. Roche <sup>1</sup> , Richard J. Kurtz <sup>1</sup> , Brian D. Wirth <sup>2</sup>	Effect of Confinement of SIA Diffusion by Traps on Radiation Damage Accumulation in Tungsten	giridhar.nandipati@pnnl.gov	US	P1
6b-MMP	16	Emil Levo <sup>1*</sup> , Fredric Granberg <sup>1</sup> , Kai Nordlund <sup>1</sup> , Flyura Djurabekova <sup>1,2</sup>	RADIATION STABILITY OF NANOCRYSTALLINE SINGLE PHASE MULTICOMPONENT ALLOYS	emil.levo@helsinki.fi	EU	P1
6b-MMP	17	Xinfu He <sup>1*</sup> , N. Castin <sup>2</sup> , S. Van den Kerkhof <sup>3</sup> , D. Terentyev <sup>2</sup> , Wen Yang <sup>1</sup>	Monte-Carlo modelling of microstructure induced by neutron irradiation in ITER-specification tungsten: effect	hexinfu@ciae.ac.cn	China	P1
7a T Retention	5	Yuji Nobuta <sup>1</sup> , Masashi Shimada <sup>2</sup> , Chase N. Taylor <sup>2</sup> , Yasuhisa Oya <sup>3</sup> , Yuji Hatano <sup>4</sup>	EFFECTS OF HELIUM SEEDING ON DEUTERIUM RETENTION IN NEUTRON-IRRADIATED TUNGSTEN	y-nobuta@eng.hokudai.ac.jp	Japan	P1
7a T Retention	7	Ayaka Koike <sup>1*</sup> , Akihiro Togari <sup>1</sup> , Moeko Nakata <sup>1</sup> , Shota Yamazaki <sup>1</sup> , Takuro Wada <sup>1</sup> , Fei Sun <sup>2</sup> , Mingzhong Zhao <sup>1</sup> , Naoaki Yosida <sup>3</sup> , Kazuaki	EVALUATION OF HYDROGEN RETENTION BEHAVIOR IN TUNGSTEN EXPOSED TO HYDROGEN PLASMA IN	koike.ayaka.15@shizuoka.ac.jp	Japan	P1

7a T Retention	9	Jing Wang1*, Yuji Hatano1, Tatsuya Hinoki2, Alexander V. Spitsyn3, Nikolay P. Bobyr3, Sosuke Kondo4, Takeshi Toyama	DEUTERIUM RETENTION IN W AND BINARY W ALLOYS IRRADIATED WITH HIGH ENERGY FE IONS	jwang@ctg.u-toyama.ac.jp	Japan	P1
7a T Retention	10	B. Unterberga1, M. Zlobinska*, G. De Temmermanb, C. Porosnicuc, D. Matveeva, G. Sergienkoa, S. Brezinseka, D. Nicolaia, M. Rasinska,	Analysis of fuel retention in Be layers by Laser-Induced Desorption (LID)	b.unterberg@fz-juelich.de	EU	P1
7a T Retention	12	Hai-Shan Zhou1,2*, Lu Wang1,2, Hao-Dong Liu1,2, Xin Yang1, Guang-Nan Luo1,2	EFFECTS OF ION-INDUCED DESORPTION ON HYDROGEN ISOTOPE PERMEATION AND RETENTION IN WALL	haishanzhou@ipp.ac.cn	China	P1
7b Oxidation Corrosion	2	Joven J H Lim1* and George Fulton1	Irradiation Assisted Corrosion study of ITER-grade CuCrZr	Joven.lim@ukaea.uk	EU	P1
7b Oxidation Corrosion	3	Teppei Otsuka1*, Natsuki Sawano1, Yuji Fujii1	Effect of rhenium contents on oxidation behaviors of tungsten-rhenium alloys	teppe.otsuka@ele.kindai.ac.jp	Japan	P1
7b Oxidation Corrosion	4	Pablo Pérez1, Ángel Muñoz2, Paloma Adeva1, Miguel Ángel Monge2*	Influence of 1 and 5 wt.% TiC additions on the oxidation behaviour of pure tungsten	mmonge@fis.uc3m.es	EU	P1
7b Oxidation Corrosion	5	P. Chakraborty1*, W. Krauss2, S.-E. Wulf2, R. Tewari1, J. Konys2	Corrosion of Indian RAFM and EUROFER steel in Pb-Li loop PICOLO	poulamic@barc.gov.in	India	P1
7b Oxidation Corrosion	6	J. Jun, K. A. Unocic, M. Romedenne, and B. A. Pint	COMPATIBILITY OF ALUMINA-FORMING STEEL IN FLOWING PbLi AT 600°-700°C WITH TEMPERATURE GRADIENTS	junj@ornl.gov	US	P1
7b Oxidation Corrosion	7	Hao Yu1*, Sosuke Kondo1, Ryuta Kasada1 Naoko Oono2, Shigenari Hayashi2, Shigeharu Ukai2	Influence of excessive oxygen addition on the oxidation resistance of Zr-added FeCrAl ODS ferritic steels	yuhao@imr.tohoku.ac.jp	Japan	P1
7b Oxidation Corrosion	8	Yichun Xu*, Yange Zhang, Xiangyan Li, Changsong Liu	The dissolution corrosion of iron surfaces in liquid lithium and lead under a fusion environment	xuyichun@issp.ac.cn	China	P1
1b-ODS	2	Pengfei Zheng1*, Jiming Chen1, Shouhua Sun2, Xiaoqiang Li3, Tielong Shen4, Yugang Wang5, Haiying Fu1, Ran Wei1, Liwen Zhang1, Xing Liu1,	SELECTION OF ADVANCED FUSION MATERIALS FOR COMPREHENSIVE NEUTRON IRRADIATION TESTS USING	zhengpf@swip.ac.cn	China	P2
1b-ODS	3	Bing Bai1*, Roger Brun2, Yong Dai2	Positron annihilation spectroscopy of ODS Eurofer97 irradiated in spallation target at PSI	bbai@ciae.ac.cn	China	P2
1b-ODS	4	Haoran Wang1*, Hao Yu1, Yuchen Liu1, Sosuke Kondo1, Ryuta Kasada1	Development of Fe-Mn-Al-Cr-C type austenitic steels for fusion application	wanghaoran@imr.tohoku.ac.jp	Japan	P2
1b-ODS	8	R. Coppola1*, P. He2, M. Klimenkov3	SMALL-ANGLE NEUTRON SCATTERING (SANS) CHARACTERIZATION OF 13.5 Cr OXIDE DISPERSION STRENGTHENED FERRITIC/MARTENSITIC STEEL FOR FUSION APPLICATIONS	roberto.coppola@enea.it	EU	P2
1b-ODS	10	Jingjie Shen 1*, Takuya Nagasaka 1, Masayuki Tokitani 1, Takeo Muroga 1, Huilong Yang 2, Sho Kano 2, Hiroaki Abe 2	Comparisons of microstructures and mechanical properties between as-fabricated and recrystallized 12Cr ODS steel	shen.jingjie@nifs.ac.jp	Japan	P2



1b-ODS	11	T. D. Shen1*, C. C. Du1, S. B. Jin2, Y. Fang3, Jin Li4, Shenyang Hu5, T. T. Yang1, Y. Zhang1, J. Y. Huang1, G. Sha2, Y. G. Wang3, Z. X. Shang4, X. Zhang4, B. R. Sun1, S. W. Xin1	STABLE NANOCRYSTALLINE AUSTENITIC STAINLESS STEELS UNDER HIGH TEMPERATURE AND INTENSE IRRADIATION	tdshen@ysu.edu.cn	China	P2
1b-ODS	12	J. Macías, V. de Castro, M. A. Auger, T. Leguey*	THERMAL STABILITY OF HOT CROSS ROLLED ODS FERRITIC STEELS	teresa.leguey@uc3m.es	EU	P2
1b-ODS	13	Ty C Austin1*, Steven J Zinkle1	Additive Manufacturing of ODS FeCrAl via in situ Oxidation	taustin7@vols.utk.edu	US	P2
1b-ODS	14	Yanfen Li1*, Jingjie Shen3, Jiarong Zhang1, Guangquan Wang1,2, Feiyang Bao1,2, Wei Yan1, Quanqiang Shi1, Yiyin Shan1, Ke Yang1, Takuya	THERMAL STABILITY BEHAVIOR FOR TWO MARTENSITIC AND FERRITIC ODS STEELS AT HIGH	yfli@imr.ac.cn	China	P2
1b-ODS	15	Huilong Yang1*, Sho Kano1, John McGrady1, Jingjie Shen2, Dongyue Chen1, Kenta Murakami3, Hiroaki Abe1	Effect of crystal orientation on hardness of Fe2+ ion irradiated 12Cr-ODS steel	yanghuilong@tokai.t.u-tokyo.ac.jp	Japan	P2
1b-ODS	19	Caleb P. Massey1,2*, Sebastien N. Dryepont2, David T. Hoelzer2, Steven J. Zinkle1,2	PROCESSING-MICROSTRUCTURE-PROPERTIES RELATIONSHIPS: A	Cmassey7@utk.edu	US	P2
1b-ODS	21	G. D. Samolyuk*, Y. N. Osetsky	DFT MODELING OF THE EQUILIBRIUM DISTRIBUTION OF POINT DEFECTS IN SYSTEMS WITH	samolyukgd@ornl.gov	US	P2
1b-ODS	22	Tim Graening1*, Rainer Ziegler1, Harald Leiste1, Michael Rieth1	Novel design approach to develop an austenitic dual precipitation strengthened steel	tim.graening@kit.edu	EU	P2
2a-PFM	15	E. Visca1*, J.H. You2, T. Barrett3, G. Dose4, M. Fursdon3, F. Gallay5, H. Greuner2, A. v. Müller2, M. Richou5, S. Roccella1	QUALIFICATION ROUTE FOR DIVERTOR TARGET CONCEPTS FOR EU-DEMO	eliseo.visca@enea.it	EU	P2
2a-PFM	22	Steffen Antusch1*, Carsten Bonnekoh1, Simon Bonk1, Peter Holzer1, Alexander Klein1, Klaus Plewa1, Michael Rieth1, Heinz Walter1	PROCESSING OF COMPLEX SHAPED PARTS VIA 2COMPONENT-TUNGSTEN POWDER INJECTION	steffen.antusch@kit.edu	EU	P2
2a-PFM	24	W. Chromiński1, Lukasz Ciupinski1, P. Bazarńnik1, S. Markelj2, T. Schwarz-Selinger3	Evolution of dislocation structures and D retention under simultaneous W and D ions exposure in tungsten	witold.chrominski@pw.edu.pl	EU	P2
2a-PFM	25	Daisuke Nishijima1*, Masayuki Tokitani2, Daisuke Nagata2, Marlene Patino1, Russell P. Doerner1	D retention properties of RAFM steels	dnishijima@eng.ucsd.edu	US	P2
2a-PFM	26	Hang Si1*, Houyang Guo2, Rui Ding1, Guosheng Xu1, Liang Wang1, Bingjia Xiao1, Zhengping Luo1, and the EAST team1	Advanced Divertor Studies in EAST/DIII-D by SOLPS	hsi@ipp.cas.cn	China	P2
2a-PFM	27	Hyung Chan Kim1*, Kyungmin Kim1, Nojun Kwak2, Yeonju Oh2, Heung Nam Han2, S.-H. Son2, Eunnam Bang1, Heekyung Choi1, Suk-Ho Hong1	Comparison of material properties of Tungsten fabricated by spark plasma sintering in Tokamak plasma	chankim@nfri.re.kr	South Korea	P2
2a-PFM	30	Mathias Jetter*, Marco Conte, Michael Mahler, Jarir Aktaa	Brittle Fracture Assessment for Tungsten and Tungsten alloy components	Mathias.Jetter@kit.edu	EU	P2
2a-PFM	31	Mauricio Gago*, Arkadi Kreter, Bernhard Unterberg and Marius Wirtz	Damage evolution in ITER-grade tungsten after simultaneous steady state plasma and high pulse	m.gago@fz-juelich.de	EU	P2
2a-PFM	32	M. Minissale1*, F. Ghiorghiu1, T. Aissou1, T. Angot1, G. De Temmerman2, R. Bisson1	Ammonia production and sticking on materials relevant to fusion reactors: tungsten and 316L stainless steel	marco.minissale@univ-amu.fr	EU	P2

2a-PFM	33	Kai Nordlund1*, Flyura Djurabekova1, Gerhard Hobler2, K. Schlueter3,4 and M. Balden3	MAJOR EFFECT OF CRYSTAL ORIENTATION ON SPUTTERING	kai.nordlund@helsinki.fi	EU	P2
2a-PFM	34	Gerald Pintsuk1*, Steffen Antusch2, Thorsten Loewenhoff1, Michael Rieth2, Marius Wirtz1	High heat flux and microstructural investigation of powder injection molded tungsten composites	g.pintsuk@fz-juelich.de	EU	P2
2a-PFM	35	Alain Durocher1*, Sophie Carpentier-Chouchana1, Frederic Escourbiac1, Andrey Fedosov1, Takeshi Hirai1, Victor Komarov1, Mario Merola1,	EXPERIMENTAL VALIDATION OF THE PLASMA FACING UNITS OF ITER TUNGSTEN DIVERTOR VERTICAL	Alain.Durocher@iter.org	EU	P2
2a-PFM	53	M. Rasinski*, A. Kreter, J.W. Coenen, Ch. Linsmeier	Retarded recrystallization of tungsten due to deuterium loading	m.rasinski@fz-juelich.de	EU	P2
2a-PFM	54	Chad M. Parish1*, Kun Wang1,2, Thomas Song1, Russell P. Doerner3, and Matthew J. Baldwin3	EFFECTS OF HELIUM EXPOSURE ON TUNGSTEN MECHANICAL BEHAVIOR	parishcm@ornl.gov	US	P2
2a-PFM	61	Massimo Zucchettia*, Raffaella Testonia, Stefano Segantina, Zachary Hartwigb, Dennis Whyteb Antonio Melia, Edoardo Andrea Pratoa,b	MATERIAL CHALLENGES AND RADIATION DAMAGE FOR THE ARC REACTOR	massimo.zucchetti@polito.it	EU	P2
2a-PFM	68	Chad M. Parish1*, Kun Wang1,2, Russell P. Doerner3, Matthew J. Baldwin3, Fred W. Meyer1, and Mark E. Bannister1	THE INTERPLAY BETWEEN HELIUM PLASMA AND TUNGSTEN MICROSTRUCTURE IN PMI	parishcm@ornl.gov	US	P2
2a-PFM	69	J. Jun, M. Romedenne, and B. A. Pint	LIQUID METAL COMPATIBILITY WITH PLASMA-FACING COMPONENT MATERIALS	pintba@ornl.gov	US	P2
2a-PFM	70	Clyde J. Beersa**, Juan F. Canesesb, Rick H. Goulding b, Juergen Rappb, Ezekial A. Unterbergb, Steve J. Zinklea,b	High Flux SiC Chemical Erosion Yields on Proto-MPEX*	beerscj@ornl.gov	US	P2
2a-PFM	75	Jiří Matějčiček1*, Pavel Rohan2, Jakub Antoš2	W+CU AND W+NI COMPOSITES AND FGMS PREPARED BY PLASMA TRANSFERRED ARC	matejicek@ipp.cas.cz	EU	P2
2a-PFM	76	Y.C. Wu1,2,3,4*, X.Y. Tan1, W.J. Wang1, X. Zan1, X.Y. Zhu1, J.Q. Liu3, L.M. Luo1,2	Toughening Approaches and Mechanisms of Tungsten Materials for the Future Fusion Reactor	ycwu@hfut.edu.cn	China	P2
2a-PFM	78	Feng Ren1*, Wenjing Qin1, R. P. Doerner2, Yongqiang Wang3*, Huiqiu Deng4	Nanochannel W with enhanced radiation tolerance and He handling	fren@whu.edu.cn	China	P2
2a-PFM	79	Myeong-Geon Lee1, Nam-Kyun Kim1, Ki-Baek Roh1, Gon-Ho Kim1*	Change of Tungsten Blister-generated Grain Orientation by Hydrogen Ion Incident Angle	lmg1142@snu.ac.kr	South Korea	P2
2a-PFM	80	Kevin B. Woller1*, Felipe Bedoya1, Dennis G. Whyte1	STUDY OF MOLTEN SALT CAPILLARY POROUS SYSTEM AS FIRST WALL IN MAGNETIC FUSION PILOT PLANT	kbwoller@mit.edu	US	P2
2b HHF + CU	12	Qiang. Li1*, Chunyi. Xie1, Zhen. Chen1, Wuqingliang. Peng1, Wangjing. Wang1, Jichao. Wang1, Xingli. Wang1, Qingran. Gao1, Xiang. Geng1, G.-N.	Creep Analysis of Cu Interlayer in W/Cu Flat-type Mock-ups under High Heat Flux of 20 MW/m2	liqiang577@ipp.ac.cn	China	P2
2b HHF + CU	14	Mingyang Li, Pei Hu, Dong Liu, Yongqin Chang*	Microstructure and mechanical properties of the CuCrZrFeTiY alloy	chang@ustb.edu.cn	China	P2
2b HHF + CU	15	A. Muñoz1,2*, B. Savoini1,2, M.A. Monge1,2 and M. Eddahbi1	MICROSTRUCTURE AND MECHANICAL PROPERTIES OF HOT ROLLED ODS COPPER	angel.munoz@uc3m.es	EU	P2

2b HHF + CU	16	A. Rodríguez-Lopez <sup>1</sup> , M.A Monge <sup>1,2</sup> , B. Savoini <sup>1,2</sup> , A. Muñoz <sup>1,2</sup> and P. Pérez <sup>3</sup>	EXPLORING CuCrFeVTi SYSTEM TO PRODUCE HIGH ENTROPY ALLOYS FOR HIGH HEAT FLUX APPLICATIONS	begona.savoini@uc3m.es	EU	P2
2b HHF + CU	17	Adrian S. Sabau <sup>1*</sup> , Sarma Gorti <sup>1</sup> , Kazutoshi Tokunaga <sup>2</sup> , and Masafumi Akiyoshi <sup>3</sup>	THERMO-MECHANICAL EFFECTS DURING 5 MW/m <sup>2</sup> HIGH-HEAT FLUX TESTING OF PLASMA FACING MATERIALS	sabaua@ornl.gov	US	P2
2b HHF + CU	19	Jeongwoo Heo <sup>1*</sup> , N. Hashimoto <sup>2</sup>	Development of F82H-W-Cu composites with a high thermal conductivity	heo@eng.hokudai.ac.jp	Japan	P2
2b HHF + CU	20	R. E. Nygren <sup>1</sup> , D. L. Youchison <sup>2</sup> , J. R. Michael <sup>1</sup> , J. D. Puskar <sup>1</sup> , T. J. Lutz <sup>1</sup>	LIQUID METAL EMBRITTLEMENT OF A LI-FILLED FERRITIC TARGET - IMPLICATIONS FOR FUSION	renygre@sandia.gov	US	P2
2b HHF + CU	21	Nerea Ordás <sup>1,2*</sup> , Luis Portolés <sup>3</sup> , María Azpeleta <sup>1,2</sup> , José Ramón Blasco <sup>3</sup> , Mario Martínez <sup>3</sup> , Julia Ureña <sup>3</sup> , Iñigo Iturriza <sup>1,2</sup>	PROCESS DEVELOPMENT OF CuCrZr COMPONENTS VIA ELECTRON BEAM MELTING	nordas@ceit.es	EU	P2
2b HHF + CU	22	Ki-Baek Roh <sup>1*</sup> , Myeong-Geon Lee <sup>1</sup> , Nam-Kyun Kim <sup>1</sup> , Kyungmin Kim <sup>2</sup> and Gon-Ho Kim <sup>1</sup>	Investigation of Macro Crack Enhanced by Grain Growth on Tungsten Divertor Monoblock at the Strike Point	tommyfly@snu.ac.kr	South Korea	P2
2b HHF + CU	23	John R. Echols <sup>1*</sup> , A. L. Winfrey <sup>2</sup>	Evaluation of W surface damage over high heat flux exposure range with the HELIOS device.	echolsster@gmail.com	US	P2
2b HHF + CU	25	D. Terentyev <sup>1</sup> , J.-H. You <sup>2</sup> , and N. Van Steenberghe <sup>3</sup>	Development of pure chromium and Cr-10W for mid-flux region PFCs for DEMO divertor	dterenty@sckcen.be	EU	P2
2b HHF + CU	27	A. Terra <sup>*</sup> , G. Sergienko, A. Kreter, Y. Martynova, M. Rasiński, M. Wirtz, Th. Loewenhoff, G. Pintsuk, D. Dorow-Gerspach, Y. Mao, J. W. Coenen, S. Brezinsek, B. Unterberg, and Ch. Linsmeier	Micro-structured tungsten, a high heat flux pulse proof material	a.terra@fz-juelich.de	EU	P2
2b HHF + CU	28	X.Y. Tan <sup>1*</sup> , W.J. Wang <sup>1</sup> , X. Chen <sup>3</sup> , L.M. Luo <sup>1,2</sup> , X. Zan <sup>1</sup> , X.Y. Zhu <sup>1</sup> , J.Q. Liu <sup>1</sup> , Y.C. Wu <sup>1,2,3,4</sup>	The Thermal Conductivity Behaviors and Its Influence Factors of Pure Tungsten with Different Statuses	x.-y.tan@hfut.edu.cn	China	P2
2b HHF + CU	29	Pengqi Chen <sup>1,2*</sup> , Jigui Cheng <sup>1,2</sup> , Bangzheng Wei <sup>1,2</sup>	Study on preparation of functional grade W-Cu materials by a combustion-based method and its thermal	pengqichen@163.com	China	P2
3c-IFMIF	4	Takuma Higashia <sup>*</sup> , Taichi Koyamaa, Takayuki Teraia and Juro Yagib	Nitrogen Concentration Dependence of Corrosion of SS316L in Liquid Lithium	takuma.higashi0728@gmail.com	Japan	P2
3c-IFMIF	6	Saerom Kwon <sup>1*</sup> , Satoshi Sato <sup>1</sup> , Makoto Nakamura <sup>1</sup> , Masayuki Ohta <sup>1</sup> , ChangHo Park <sup>1</sup> , Makoto Oyaidzu <sup>1</sup> , Kentaro Ochiai <sup>1</sup> , Atsushi Kasugai <sup>1</sup>	CONCEPTUAL DESIGN OF BLANKET MATERIALS TEST MODULES FOR A-FNS	kwon.saerom@qst.go.jp	Japan	P2
3c-IFMIF	7	Eiichi Wakai <sup>1*</sup> , Takuma Higashi <sup>2</sup> , Akihiro Suzuki <sup>2,3</sup> , Yuzuru Ito <sup>1</sup> , Hiroyasu Tanigawa <sup>4</sup> , Hiroo Nakamura <sup>1</sup> , Takayuki Terai <sup>2</sup> , Davide	Validation Tests of Lithium Target System of Accelerator Driven Irradiation Facility	wakai.eiichi@jaea.go.jp	Japan	P2
3c-IFMIF	8	B. V. Kuteev	FUSION NEUTRON SOURCES FOR DEVELOPMENT OF MATERIALS AND FUSION-FISSION HYBRID	Kuteev_BV@nrcki.ru	Russia	P2
3c-IFMIF	9	K. D. Weaver <sup>1*</sup> , J. D. McDuffee <sup>2</sup> , and L. L. Snead <sup>3*</sup>	Current Status and Prospects for Fission Based Materials Test Reactors for Fusion in the US	Lance.Snead@Stonybrook.edu	US	P2
3c-IFMIF	11	Yuefeng Qiu <sup>1*</sup> , Fernando Mota <sup>2</sup> , Ulrich Fischer <sup>1</sup> , Alexandre Konobeyev <sup>1</sup>	Comparison of different DPA models for the irradiation of iron in IFMIF-DONES	yuefeng.qiu@kit.edu	EU	P2

5b Microstructure	1	Arunodaya Bhattacharya*, David T. Hoelzer, Dalong Zhang1, Kun Wang, Josina W. Geringer, Kevin G. Field, Yutai Katoh	MICROSTRUCTURES OF MA957, 12YWT AND PM2000 ODS STEELS AFTER > 50 DPA NEUTRON IRRADIATIONS	bhattacharya@ornl.gov	US	P2
5b Microstructure	2	Matheus A Tunes1, Stephen E Donnelly1, Philip D Edmondson2	ACCELERATED RADIATION EFFECTS IN MAX PHASES AT HIGH TEMPERATURES	edmondsonpd@ornl.gov	EU	P2
5b Microstructure	3	Yao Li1*, Yajie Zhao1, Arunodaya Bhattacharya2, Jean Henry3, Steven John Zinkle1,2	Effect of Cr and C on dislocation loops in heavy ion irradiated ultra-high purity FeCr alloys	yli166@vols.utk.edu	US	P2
5b Microstructure	4	Weilin Jiang*, David J. Senor	DIFFUSION OF HYDROGEN ISOTOPES AND MICROSTRUCTURE IN ION IRRADIATED LITHIUM	weilin.jiang@pnnl.gov	US	P2
5b Microstructure	5	F. A. Garner*, A. J. French and Lin Shao	IMPROVEMENT OF ION BOMBARDMENT FOR SIMULATION OF NEUTRON-INDUCED VOID SWELLING	frank.garner@dslextrême.com	US	P2
5b Microstructure	6	Dai Hamaguchi1, Masami Ando1, Hiroyasu Tanigawa1, Arunodaya Bhattacharya2, Kevin G. Field2, J. Wilna Geringer2, Yutai Kato2, Sho	MICROSTRUCTURAL EVOLUTION OF F82H UNDER HIGH DOSE IRRADIATION	hamaguchi.dai@qst.go.jp	Japan	P2
5b Microstructure	7	Yeping Lin1*, Lin Lang1, Chang Shan1, Huiqiu Deng2, Wangyu Hu1, Fei Gao3, 1	GENERATION AND EVOLUTION OF IRRADIATION-INDUCED DEFECTS IN Ni-Co-Cr-Fe SINGLE-PHASE	linyeping@hnu.edu.cn	China	P2
5b Microstructure	9	M. Šćepanović, M.A. Auger*, T. Leguey, J. Macias, V. de Castro	Atom Probe Tomography analysis of dual ion beam irradiated ODS steel	mauger@fis.uc3m.es	EU	P2
5b Microstructure	10	Chenxu Wang1, 2*, Rodney C. Ewing1, Yugang Wang2	Disorder in Mn+1AXn phases at the atomic scale	chenxuw@stanford.edu	US	P2
5b Microstructure	11	Chenyang Lu1,2*, Yanwen Zhang3, Fei Gao1, Lumin Wang1	INFLUENCE OF CHEMICAL COMPLEXITY ON RADIATION EFFECTS: FROM PURE METAL TO HIGH ENTROPY ALLOY	chenylu@xjtu.edu.cn	US	P2
5b Microstructure	14	Naoyuki Hashimoto1*, Wei-Ying Chen2, Jien-Wei Yeh3	In-situ observation of radiation damage in FeCrNiMn high entropy alloys	hashimoton843@gmail.com	Japan	P2
5b Microstructure	15	Akihiko Kimura1*, Jin Gao1, Kiyohiro Yabuuchi1, Eva Hasenhuettl2, Zhexiong Zhang3	ORDERED DEFECT STRUCTURES IN BCC METALS	kimura@iae.kyoto-u.ac.jp	Japan	P2
5b Microstructure	16	Koichi Sato1*, Yohei Kondo1, Masakiyo Ota1, Masahira Onoue2, Masahiko Hatakeyama3, Satoshi Sunada3, Qiu Xu4, Yoshiyuki Watanabe5, Dai	DEPENDENCE OF POSITRON ANNIHILATION LIFETIME OF VACANCY-TYPE DEFECTS ON HYDROGEN ATOMS IN	ksato@mech.kagoshima-u.ac.jp	Japan	P2
5b Microstructure	18	Ling Wang1, Arunodaya Bhattacharya2, David Martin3, Chad M. Parish2, Spencer Kropf3, Brian D. Wirth2,3, Steven J. Zinkle1,2,3*	Phase stability of coherent precipitates in dilute binary alloys after ion irradiation	lwang85@vols.utk.edu	US	P2
5b Microstructure	19	Yosuke Abe1*, Yuhki Satoh2, Nariaki Okubo1, Azusa Konno1	EFFECT OF ONE-DIMENSIONAL MIGRATION OF SELF-INTERSTITIAL ATOM	abe.yosuke@jaea.go.jp	Japan	P2
5b Microstructure	20	Yoshiyuki Watanabe1*, Kazunori Morishita2, Masami Ando1 and Hiroyasu Tanigawa1	Microstructure correlation of RAFM steel under different irradiation fields: Reaction rate theory analysis	watanabe.yoshiyuki@qst.go.jp	Japan	P2
5b Microstructure	21	Yajie Zhao1*, Arunodaya Bhattacharya2, Philip D. Edmondson2, Caleb Massey1, Jean Henry3, and Steven J. Zinkle1,2	DOSE RATE AND TEMPERATURE EFFECT ON IRRADIATION-ENHANCED ALPHA PRIME	yzhao65@vols.utk.edu	US	P2

5b Microstructure	22	Yuta Ono1*, N. Hashimoto2, Wei-Ying Chen3	Mobility of point defects in CoCrFeNi-base High Entropy Alloys	hasimoto@eng.hokudai.ac.jp	Japan	P2
5b Microstructure	23	Mitsuki Zushi1*, N. Hashimoto2, D. Hamaguchi3, Y. Watanabe3, H. Tanigawa3	Determination of grain boundary character in ferritic/martensitic steel F82H	hasimoto@eng.hokudai.ac.jp	Japan	P2
5b Microstructure	25	Zhiwei Hu1, MF Barthe1*, C Genevois-Mazellier1, B Decamps2, P Desgardin1, R Schaublin3	Damage induced in self irradiated tungsten as a function of its purity	marie-france.barthe@cnrs-orleans.fr	EU	P2
5d He T H	1	Amy Sarah Gandy1*, Alice Marcella Williams1, 2, Kai Kang3, Dhinisa Patel1, Jack Haley4, Russell Goodall1	Surface nano-structuring in High Entropy Alloys from He plasma irradiation	a.gandy@sheffield.ac.uk	EU	P2
5d He T H	2	Georg Holzner1*, Thomas Schwarz-Selinger1, Udo von Toussaint1, Stefan Elgeti1	Inductive heating based apparatus to revise the Frauenfelder data set for hydrogen diffusion in tungsten	georg.holzner@ipp.mpg.de	EU	P2
5d He T H	3	Yiqiang Wang1*, Andrej Turk2, Biao Cai3, Robert Dalglis4, Adam Washington4, Jan Hoffmann5, Elizabeth Surrey1, Mike Gorley1	Quantitative analysis of hydrogen trapping in ODS-EUROFER97 using small-angle neutron scattering	yiqiang.wang@ukaea.uk	EU	P2
5d He T H	4	Congyi Li1*, Xunxiang Hu2, Qiu Jie1, Yutai Katoh2, Brian Wirth1,2	INVESTIGATING THE DEPENDENCE OF MICROSTRUCTURE AND SURFACE ORIENTATION ON	cli26@vols.utk.edu	US	P2
5d He T H	5	Duc Nguyen-Manh1,* and Sergei L. Dudarev1	RELAXATION VOLUMES OF IRRADIATION-INDUCED DEFECTS CONTAINING HELIUM AND	duc.nguyen@ukaea.uk	EU	P2
5d He T H	6	Shijun Zhao, Da Chen, and Ji-Jung Kai	Assessment of He behavior in a NiCoFeCr High-Entropy Alloy	shijzhao@cityu.edu.hk	China	P2
5d He T H	8	Wangguo Guo1*, Lin Ge2, Yue Yuan1, Long Cheng1, Shiwei Wang1, Xiaona Zhang2, Guang-Hong Lu1	<001> edge dislocation nucleation mechanism of deuterium-induced blistering in tungsten	guowangguo@buaa.edu.cn	China	P2
5d He T H	10	Kodai Tabira1*, Takuya Shiratsuru1, Kenichi Hashizume1	Thermal diffusion of deuterium in nickel under temperature gradient	tabira.kodai.984@s.kyushu-u.ac.jp	Japan	P2
5d He T H	11	Vladimir Krsjak1*, Jarmila Degmova1, Jana Simeg-Veternikova1, Stanislav Sojak1 and Vladimir Slugen1	EXPERIMENTAL COMPARISON OF THE (ODS)EUROFER STEELS IMPLANTED BY HELIUM IONS	vladimir.krsjak@stuba.sk	EU	P2
5d He T H	12	Lei Peng1*, Jingyi Shi2, Liuliu Li1, Yong Dai3	Molecular dynamics simulation on barrier strength of irradiation induced helium bubble in RAFM steels	penglei@ustc.edu.cn	China	P2
5d He T H	13	Alexander B. Sivak1*, Polina A. Sivak1	DIFFUSION AND THERMAL DISSOCIATION OF VACANCY-HYDROGEN COMPLEXES IN BCC IRON	Sivak_AB@nrcki.ru	Russia	P2
5d He T H	15	S. Davies1*, A. Hollingsworth1, A. De Backer1, M.Yu. Lavrentiev1, R. Smith1, Z. Kollo1, A. Davies1, A. Widdowson1, K. Heinola2, K.	NEW RESULTS FROM A STUDY OF CHANGES IN HYDROGEN ISOTOPE RETENTION AND	Sophie.Davies@ukaea.uk	EU	P2
5e Adv Charact	1	Hirokazu Ando1*, Masato Yamawaki2, Tetsuya Hirade3, Xunxiang Hu4, Masafumi Akiyoshi1	ADVANCED FAST PALS SYSTEM FOR IRRADIATED SINGLE MINIATURE SPECIMEN	h-ando@osaka-pct.ac.jp	Japan	P2
5e Adv Charact	2	Jarmila Degmova1*, Vladimir Krsjak1, Alzbeta Kubiritova1, Adam Jakabovic1, Stanislav Sojak1 and Martin Petriska1	CDBS CHARACTERIZATION OF ADVANCED STEELS FOR FUSION APPLICATIONS	jarmila.degmova@stuba.sk	EU	P2

5e Adv Charact	3	Andrew J. London1*, Chris Hardie1, Joven J. H. Lim1, Rob Bamber1 2	RAPID INVESTIGATION OF IRRADIATION TEMPERATURE SENSITIVITY WITH CHARGED PARTICLES	andy.london@ukaea.uk	EU	P2
5e Adv Charact	5	Lijuan Cui1*, Yong Dai1, Stephan Gerstl2, Xing Huang2, Manuel Pouchon1, Robin Schäublin2	Irradiation induced Segregation analyses in grain boundaries and phase boundaries by using APT/TEM	lijuan.cui@psi.ch	Switzerland	P2
5e Adv Charact	6	Lijuan Cui1, Yong Dai1*, Stephan Gerstl2	Systematically indexing APT mass spectrum of ODS and RAFM steels after irradiation in SING	Lijuan.cui@psi.ch	Switzerland	P2
5e Adv Charact	8	M. Roldán1*, F. J. Sánchez1, P. Galán2, A. Gómez-Herrero3	ON THE STRAIN EFFECT IN DISLOCATION LOOPS PRODUCED BY SELF-ION IRRADIATION TO	marcelo.roldan@ciemat.es	EU	P2
5e Adv Charact	9	Takaaki Koyanagi1*, Yutai Katoh1, Christian Petrie1, Gyanender Singh2, Xunxiang Hu1, José Arregui-Mena1, Christian Deck3, Kurt Terrani1	RESPONSE OF SIC COMPOSITES TO NEUTRON-IRRADIATION WITH A HIGH HEAT FLUX: EXPERIMENTS	koyanagit@ornl.gov	US	P2
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5e Adv Charact	13	Viacheslav M. Chernov1-2	RADIATION PROPERTIES OF THE METAL STRUCTURAL MATERIALS DURING LOW-TEMPERATURE DAMAGING	VMChernov@bochvar.ru.	Russia	P2
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5e Adv Charact	16	Dalong Zhang1*, Maxim Gussev2, Samuel A. Briggs3, Philip D. Edmondson2, Yukinori Yamamoto2, and Kevin G. Field2	Deformation Mechanisms in a Neutron Irradiated FeCrAl Alloy and its Weldment	dalong.zhang@pnnl.gov	US	P2
5e Adv Charact	17	Edgar Leon-Gutierrez1*, Rafael Vila1, JET Contributors2++See the author list of "X. Litaudon et al 2017 Nucl. Fusion 57 102001"	SYSTEM OPTIMIZATION AND OFF-LINE CHARACTERIZATION OF FUSED SILICA FIBERS FOR IN-	edgar.leon@ciemat.es	EU	P2
6a Multi Scale Model	4	Maosheng Li*, Jing Xia, Hongming Li	Micromechanical Investigations Radiation Hardening Effect of FCC Metals	li_maosheng@iapcm.ac.cn	China	P2
6a Multi Scale Model	7	Lorenzo Malerba1*, Mar.a J. Caturla2, Ermile Gaganidze3, Cornelia Heintze4, Milan Konstantinovic5, Pär Olsson6, David Rodney7, Ana M. Ruiz8, Marta	MODELLING ION IRRADIATION AND SLIP LOCALISATION IN FERRITIC-MARTENSITIC STEELS: THE	lorenzo.malerba@ciemat.es	EU	P2
6b-MMP	2	Fernando Mota1*, Christophe J. Ortiz1, Rafael Vila1, Angel Ibarra1	NEW PRIMARY DISPLACEMENT DAMAGE CALCULATION METHODS FOR	fernando.mota@ciemat.es	EU	P2
6b-MMP	18	Mingjie Zheng1*, Wenyi Ding1, Weitao Cao1, Shenyang Hu2, Qunying Huang1, Shaojun Liu1, Xiaodong Mao1, Yican Wu1, FDS Team1	QUICK SCREENING DESIGN OF MULTI-PRINCIPAL ELEMENT ALLOYS FOR NEW	mingjie.zheng@fds.org.cn	China	P2
6b-MMP	19	Jingming Shi1*, Naoyuki Hashimoto2, Shigehito Isobe2	EFFECT OF H AND HE ON INCOHERENT FE/W INTERFACE: A DFT STUDY	shi-jingming@eng.hokudai.ac.jp	Japan	P2
6b-MMP	21	Wenyi Ding*, Mingjie Zheng, Chao Wang, Jingping Xin, Qunying Huang, FDS Team	EFFECT OF NEUTRON ENERGY SPECTRUM ON MATERIAL IRRADIATION DAMAGE	wenyi.ding@fds.org.cn	China	P2
6b-MMP	22	Emil Levo1*, Fredric Granberg1, Kai Nordlund1, Flyura Djurabekova,1,2	RADIATION TOLERANCE OF EQUIATOMIC MULTICOMPONENT ALLOYS	emil.levo@helsinki.fi	EU	P2

6b-MMP	23	Jan Fikar1*, Robin Schaublin2	MOBILITY OF SMALL DISLOCATION LOOPS IN TUNGSTEN IN PRESENCE OF OBSTACLES	fikar@ipm.cz	EU	P2
6b-MMP	24	Yangchun Chen1, Lixia Liu2, Jun Fu1, Wangyu Hu2, Fei Gao3, 2, Huiqiu Deng1*	DEVELOPMENT OF INTERATOMIC POTENTIALS FOR BINARY W-X (X = TA, V, MO, NB, RE) ALLOYS	hqdeng@hnu.edu.cn	China	P2
6b-MMP	25	Yinan Wang1, *, Xiaoyang Wang1, Xiaoyu Wu1, Qiulin Li1,2, Chengliang Li3, Guogang Shu3, Ben Xu1, Wei Liu1	Hydrogen distribution induced screw dislocation core spreading in tungsten	wangyn14@mails.tsinghua.edu.cn	China	P2
6b-MMP	29	Padhraic L. Mulligan*, Christian M. Petrie, Lauren Garrison, Takaaki Koyanagi, Josina W. Geringer, Yutai Katoh	THERMAL AND STRUCTURAL MODELING OF CAPSULES TO IRRADIATE NONSTANDARD MATERIALS FOR FUSION	mulliganpl@ornl.gov	US	P2
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6b-MMP	32	Kota Ninomiya1, Sutatch Ratanaphan2, Sho Hayakawa1, Mitsuhiro Itakura3, Taira Okita4	MD simulations to evaluate a stable configuration of a vacancy cluster in FCC metals and its interaction with an	ninomiya@race.u-tokyo.ac.jp	Japan	P2
6b-MMP	33	Lukas Vlcek1*, German Samolyuk2, James Morris1,2 and Yuri Osetsky2	A NEW APPROACH FOR INTERATOMIC FORCES TRAINING FOR MODELING HIGH-	vlcek1@ornl.gov	US	P2
6b-MMP	34	Yuanyuan Wang1*, Xin Sun2, Jijun Zhao1	A physics-based model coupled with the crystal plasticity theory for predicting irradiation-induced	630wyy@163.com	China	P2
6b-MMP	35	Liuli Li1, Jingyi Shi2, Lei Peng1*, Wei Jiang1	Atomistic simulation on formation and evolution of heliumvacancy cluster in bcc Fe	liuliuli@mail.ustc.edu.cn	China	P2
6b-MMP	36	Jingyi Shi1*, Lei Peng2, Liuli Li2, Fei Gao3, Jianjun Huang1, Jiangang Li1, 4	Molecular Dynamics Study on Effects of GB Characteristics on Helium Embrittlement	shijy@szu.edu.cn	China	P2
7a T Retention	1	Xunxiang Hu1*, Lizhen Tan1, David T. Hoelzer1, Yutai Katoh1, Guiyang Huang2, Ze Chen2,3, Brian D. Wirth2	DEUTERIUM RETENTION IN ADVANCED STEELS FOR FUSION STRUCTURAL APPLICATIONS	hux1@ornl.gov	US	P2
7a T Retention	2	Akito Ipponsugi1*, Kazunari Katayama1, Tsuyoshi Hoshino2	Li mass loss and structure change due to long time heating in hydrogen atmosphere from	ipponsugi.akito.763@s.kyushu-u.ac.jp	Japan	P2
7a T Retention	3	Kazunari Katayama1*, Naoko Ashikawa2,3, Takumi Chikada4	MASS TRANSFER AT THE INTERFACE BETWEEN STAINLESS STEEL AND SUPERCRITICAL CARBON	kadzu@nucl.kyushu-u.ac.jp	Japan	P2
7a T Retention	4	Kazuki Nakamura1*, Hikari Fujita2, Jan Engels3, Masayuki Tokitani4, Yoshimitsu Hishinuma4, Kiyohiro Yabuuchi5, Sho Kano2, Takayuki	EFFECTS OF HELIUM IMPLANTATION WITH HEAVY ION IRRADIATION ON	nakamura.kazuki.14@cii.shizuoka.ac.jp	Japan	P2
7a T Retention	6	Takumi Chikada1*, Hikari Fujita2, Kazuki Nakamura1, Keisuke Kimura1, Teruya Tanaka3, Wataru Inami1, Yoshimasa Kawata1	DEUTERIUM PERMEATION MECHANISM IN CERAMIC COATINGS UNDER GAMMA-RAY IRRADIATION	chikada.takumi@shizuoka.ac.jp	Japan	P2
7a T Retention	13	Hongtao Huang, Jianpin Zheng, Shuo Ding, Weijun Wang, Zheng Zhang	Effect of Oxide Film on the Deuterium Permeation Behavior of 430 Stainless Steel	huanghongtao401@163.com	China	P2
7c-BCC	1	Xiaoming Yuan*, Hongguang Yang, Qin Zhan	DEVELOPMENT OF TRITIUM PERMEATION BARRIER COATING FOR FUSION TBM IN CIAE	yuanxm1981@163.com	China	P2

7c-BCC	2	Hao Yang, Xiang Ji, Siwei Zhang, Wei Wang*, Qunying Huang, FDS Team	SYNTHESIS AND CHARACTERISTIC OF BIOMIMETIC GRAPHENE OXIDE/Al <sub>2</sub> O <sub>3</sub> COMPOSITE	wei.wang@fds.org.cn	China	P2
7c-BCC	3	A. Houben1*, M. Rasiński1, L. Gao2, Ch. Linsmeier1, and WP PFC contributors	Tungsten Nitride as Tritium Permeation Barrier	an.houben@fz-juelich.de	EU	P2
7c-BCC	4	Yu-Ping Xu*, Yi-Ming Lyu, Xiao-Chun Li, Hai-Shan Zhou, Guang-Nan Luo	Repair the damaged tritium permeation barrier by cold spray	xuyp@ipp.ac.cn	China	P2
7c-BCC	5	Wei Mao1*, Wilde Markus2, Shohei Ogura2, Takumi Chikada3, Katsuyuki Fukutani2, Hiroyuki Matsuzaki4,5, Takayuki Terai1,5	H isotope behaviors in rutile TiO <sub>2</sub> (110) surface	mao@nuclear.jp	Japan	P2
7c-BCC	6	Laizhong Cai1*, Xiaoxiao Zeng1, Jianbao Wang1, Jiupeng Song2, Binyou Yan2, Zhe Chen1, Xiang Liu1, Youyun Lian1, Yu Li3, Thomas Morgan3	Fabrication and test of the new first wall structure with a tritium barrier for DEMO	cailz@swip.ac.cn	China	P2
7c-BCC	8	Hisashi Serizawa1*, Jun Shimaoka2, Yuji Sato3, Takahiro Hara2, Masahiro Tsukamoto1, Hiroyasu Tanigawa4	DEVELOPMENT OF COPPER DEPOSITION ON TUNGSTEN WITH BLUE AND INFRARED DIODE LASERS	serizawa@jwri.osaka-u.ac.jp	Japan	P2
7c-BCC	9	Teresa Hernández1*, Fernando J. Sánchez1, Eric Platacis2, Kalvis Kravalis2	COATINGS COMPATIBILITY WITH Pb-17Li FLOW AND MAGNETIC FIELD	teresa.hernandez@ciemat.es	EU	P2

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1b-ODS	25	David T. Hoelzer*, Ian A. Stinson and Caleb P. Massey	INVESTIGATING THE BENEFIT OF 1%W ON THE MICROSTRUCTURE AND MECHANICAL PROPERTIES OF	hoelzerd@ornl.gov	US	P3



1b-ODS	26	A. Issaoui <sup>1,2</sup> , J. Ribis <sup>1</sup> , J. Malaplate <sup>1</sup> , , A. Legris <sup>2</sup>	Characterization of Microstructural Evolution of ODS STEELS after LONG Thermal Aging and Ion	Amal.ISSAOUI@cea.fr	EU	P3
1b-ODS	27	Peng Song <sup>1*</sup> , Kiyohiro Yabuuchi <sup>1</sup> , Akihiko Kimura <sup>1</sup>	Phase stability under ion- irradiation in ODS ferritic steels strengthened by different sorts of oxides	p-song@iae.kyoto-u.ac.jp	Japan	P3
1b-ODS	28	Zhangjian Zhou <sup>1*</sup> , Shuai Xu, Lingzhi Chen, Shuguang Cao, Haodong Jia	SURVEY OF COMPOSITION DESIGN STRATEGIES OF ODS FERRITIC ALLOY FOR ENGINEERING	zhouzhj@mater.ustb.edu.cn	China	P3
1b-ODS	29	Yen-Jui HUANG <sup>1*</sup> , Kousuke KAWAKITA <sup>2</sup> , Mahiro NONO <sup>2</sup> , Hideo Nakagawa <sup>2</sup> , Akihiko KIMURA <sup>1</sup>	Suppression of Stress Corrosion Cracking in Sensitized SUS304 and SUS316L in Fusion Relevant	y-huang@iae.kyoto-u.ac.jp	Japan	P3
1b-ODS	32	Hiroshi Oka <sup>*</sup> , Takashi Tanno, Yasuhide Yano, Satoshi Ohtsuka, Takeji Kaito, Yoshiaki Tachi	Microstructural stability of ODS steel after long-time creep test	oka.hiroshi@jaea.go.jp	Japan	P3
1b-ODS	33	Jian Feng <sup>1</sup> , Qingzhi Yan <sup>1*</sup> , Xiaoxin Zhang <sup>2*</sup>	THERMODYNAMIC MODEL OF MICROSTRUCTURE FOR ODS STEELS FABRICATED BY VACUUM INDUCTION	fengjian2238@gmail.com	China	P3
1b-ODS	34	Yingxue Chen <sup>1*</sup> , Xiaoxin Zhang <sup>2</sup> and Qingzhi Yan <sup>1</sup>	HIGH TEMPERATURE MECHANICAL PROPERTIES OF FERRITIC/MARTENSITIC CNS-1-ODS STEEL	Chenyngxue001@sina.com	China	P3
1b-ODS	35	Zhongwei Jin <sup>1</sup> , Yina Huang <sup>1*</sup> , Laima Luo <sup>1</sup> , Yucheng Wu <sup>1,2</sup>	The effect of Cr in the nucleation and dispersion of Y <sub>2</sub> O <sub>3</sub> in Fe-Cr ODS alloy	yina@hfut.edu.cn	China	P3
1b-ODS	36	P. Fernández(1)*, J. Hoffmann(2), M. Rieth(2), and A. Gómez-Herrero(3)	Secondary phases characterization on 9%Cr Advanced Steels by STEM and EELS	pilar.fernandez@ciemat.es	EU	P3
1b-ODS	37	P. Fernández(1)*, A. Gómez- Herrero(2), N. Ordás(3,4), D. Pazos(3,4)	TEM characterization on ODS produced by STARS route	pilar.fernandez@ciemat.es	EU	P3
1d Tungsten	25	D. Dorow-Gerspach*, J.W. Coenen, Th. Loewenhoff, G. Pintsuk, A. Terra, M. Wirtz	Realizing thermal shock proof micro-structured tungsten components	d.dorow-gerspach@fz-juelich.de	EU	P3
1d Tungsten	28	Sosuke Kondo <sup>1*</sup> , Takaaki Koyanagi <sup>2</sup> , Tatsuya Hinoki <sup>3</sup> , Yutai Katoh <sup>2</sup>	SHEAR STRENGTH OF IRRADIATED W/SIC INTERPHASES	s-kondo@imr.tohoku.ac.jp	Japan	P3
1d Tungsten	29	G. D. Samolyuk*, Y. N. Osetsky	STABILITY OF PHASES IN THE W-Re-Os SYSTEM UNDER IRRADIATION	samolyukgd@ornl.gov	US	P3
1d Tungsten	30	Saša Novak <sup>1</sup> , Petra Jenuš <sup>1</sup> , Matej Kocen <sup>1,2</sup> , Anže Abram <sup>1</sup> , Andreja Šestan Zavašnik <sup>2,3</sup> , Sabina Markelj <sup>4</sup> , Mitja Kelemen <sup>4</sup> , Andrei Galatanu <sup>5</sup> , Elena Tejado <sup>6</sup> , Jose Ygnacio Pastor <sup>6</sup> , G. Pintsuk <sup>7</sup>	WC as reinforcement for tungsten or matrix material for DEMO divertor	sasa.novak@ijs.si	EU	P3
1d Tungsten	32	Tomohito Tsuru <sup>1,2*</sup> , Tomoaki Suzudo <sup>3</sup> , Mitsuhiro Itakura <sup>3</sup> , Masato Wakeda <sup>4</sup> , Shigenobu Ogata <sup>5,2</sup>	A numerical description of the motion of screw dislocation around solutes in tungsten alloys	tsuru.tomohito@jaea.go.jp	Japan	P3
1d Tungsten	34	Elizabeth A.I. Ellis <sup>1*</sup> , Michael M. Kirka <sup>1</sup> , Chase B. Joslin <sup>1</sup> , Lauren M. Garrison <sup>1</sup> , Christopher Ledford <sup>2</sup> , Sullivan Figurskey <sup>2</sup> , Chris Rock <sup>2</sup> , Timothy Horn <sup>2</sup> , Yutai Katoh <sup>1</sup> , and Ryan R. Dehoff <sup>1</sup>	ADDITIVE MANUFACTURING OF MODEL TUNGSTEN FUSION COMPONENTS	ellisea@ornl.gov	US	P3

1d Tungsten	35	M. E. Alam*, G. R. Odette	ON THE REMARKABLE FRACTURE TOUGHNESS OF W-Ni-Fe TUNGSTEN HEAVY ALLOYS: CHARACTERIZING	alam@engineering.ucsb.edu	US	P3
1d Tungsten	36	C.-L. Chen* and Sutrisna	Effects of Ti, V and Ta on characteristics and synthesis of mechanically alloyed W-based ODS alloys	chunliang@gms.ndhu.edu.tw	Taiwan	P3
1d Tungsten	37	Zhisheng Yan1, Yina Huang1*, Laima Luo1, Yucheng Wu1,2	Microstructural comparison of effect of Y2O3 and TiC additions in tungsten	yina@hfut.edu.cn	China	P3
1d Tungsten	38	Carsten Bonnekoh1*, Harald Leiste1, Jan Hoffmann1, Andreas Hoffmann2, Jens Reiser1	KEY FACTORS FOR ROOM TEMPERATURE DUCTILITY OF MONOLITHIC TUNGSTEN SHEETS	carsten.bonnekoh@kit.edu	EU	P3
1d Tungsten	39	A. v. Müller1,2*, G. Schlick3, R. Neu1,2, C. Anstatt3, B. Buschmann2,3, B. Curzadd1,2, D. Dorow-Gerspach4	Additive manufacturing of pure tungsten by means of selective laser beam melting	alexander.v.mueller@ipp.mpg.de	EU	P3
1d Tungsten	40	Philipp Lied1*, Wolfgang Pantleon2, Carsten Bonnekoh1, Michael Dürrschnabel1, Andreas Hoffmann3, Jens Reiser1	Comparison of K-doped and pure cold rolled tungsten sheets: As-rolled condition and recrystallization behavior	philipp.lied@kit.edu	EU	P3
2a-PFM	36	Irina L. Tazhibayeva1,2*, Timur V. Kulsartov3, Yuriy V. Ponkratov1, Yuriy N. Gordienko1, Zhanna A. Zaurbekova1,3, Yevgen V. Chikhray3,	REACTOR EXPERIMENTS AND MODELING OF HYDROGEN ISOTOPES INTERACTION WITH LITHIUM CPS	Tazhibayeva@ntsc.kz	Kazakhstan	P3
2a-PFM	37	Nan Deng1, Zhangjian Zhou1*, Jianqiang Li2	FABRICATION AND CHARACTERIZATION OF W/CU FGM BASED HEAT SINK BY COLD SPRAY	zhouzhj@mater.ustb.edu.cn	China	P3
2a-PFM (Also reviewed as 1f2 but keep here)	38	Yuta Toramoto1*, N. Hashimoto2, H. Noto3	Fabrication of Fe-based composite material with high thermal conductivity	toramoto@eng.hokudai.ac.jp	Japan	P3
2a-PFM	39	T. Zhang, Z. M. Xie	Ultra-fine grained and nano-grained bulk W-ZrC alloy as plasma-facing components in fusion devices	zhangtao@issp.ac.cn	China	P3
2a-PFM	40	Wuxin Song1, Yonggang Li2, Zhangcan Yang1*	Sputtering properties of tungsten fuzzy surfaces investigated by BCA method	Yang_zhangcan@hust.edu.cn	China	P3
2a-PFM	41	Zhe Chen1*, Xiang Liu1, Laizhong Cai1, Yu Li2, Thomas Morgan2, Hans van Eck2, Youyun Lian1, Fan Feng1, Jianbao Wang1, Yang Tan1	Response of W-Y2O3 alloy and CVD-W coating exposed to ELM-like hydrogen plasma at Magnum-PSI	chenzhe@swip.ac.cn	China	P3
2a-PFM	42	Xiu-Li Zhu1*, Long Cheng 2, Yue Yuan 2, Arkadi Kreter3, Guang-Hong Lu 2, Jian-Jun Huang 1, Jian-Gang Li 1,4	Damage dependence of deuterium behavior in tungsten after plasma exposure	zhuxiuli@szu.edu.cn	China	P3
2a-PFM	43	Li Yang1*, Brian D. Wirth1,2	FIRST-PRINCIPLES STUDY OF HYDROGEN BEHAVIOR NEAR W/WC INTERFACES	liyang@utk.edu	US	P3
2a-PFM	44	Li Yang1*, Zack J. Bergstrom1, Brian D. Wirth1,2	FIRST-PRINCIPLES STUDY OF HELIUM EFFECT ON HYDROGEN TRAPPING IN BULK AND	liyang@utk.edu	US	P3
2a-PFM	45	Zhizhong Jiang1*, Lin Luo1, Zunqi Xiao1, Jihua Huang2, Qunying Huang1, FDS Team	PREPARATION OF TUNGSTEN-DIAMOND COMPOSITES WITH HIGH THERMAL CONDUCTIVITY	zhizhong.jiang@fds.org.cn	China	P3
2a-PFM	46	M. Minissale1,*, A. Durif2, T. Vidal3, P. Hiret3, J. Faucheux5, M. Lenci4, G. Kermouche4, Y. Pontillon5, M. Richou2, and L. Gallais3	A high power laser facility to submit plasma facing materials to extreme heats loads	marco.minissale@univ-amu.fr	EU	P3

2a-PFM	49	Eric Lang1*, Lauren Garrison2, Nathan Reid1, Xunxiang Hu2, Jean Paul Allain1	Surface Chemistry and Morphology Response of High-Temperature Ceramics to Low Energy, High	ejlang2@illinois.edu	US	P3
2a-PFM	51	Miao Qu1*, Fanhang Kong1, Sha Yan1, Jianming Xue1, Yugang Wang1	Cracking and grain growth behaviors of pure tungsten induced by ELM-like transient heat loads	qumiao@pku.edu.cn	China	P3
2a-PFM	52	Michael J. Simmonds1*, Russell P. Doerner1, Peihao Sun2, Siegfried H. Glenzer2, Phillip Heimann2, Qianran Yu3, Jaime Marian3, George R. Tynan1	Characterization of Post-Damage Defect Annealing in Heavy Ion Irradiated Tungsten by X-Ray Diffuse	msimmonds@eng.ucsd.edu	US	P3
2a-PFM	55	Sergey Pestchanyi1*, Francesco Maviglia2	SIMULATION OF THE FIRST WALL SHIELDING DURING UPWARD VDE IN DEMO	serguei.pestchanyi@kit.edu	EU	P3
2a-PFM	62	Yini Lv1, Min Pan*1, Kaige Hu*2, Zelin Cao2, Shulong Wen1, Zheng Huang3, Yong Zhao1	THE STUDY OF W ELEMENT EFFECCT ON VACANCY CLUSTER BEHAVIOR IN Ta-W ALLOY	mpan@swjtu.edu.cn	China	P3
2a-PFM	64	T. S. Wang1,2*, J.T. Zhao1,2, X. Meng1,2, J.D. Zhang1,2 and Z.H.Chen1,2	REAL TIME STUDY OF DYNAMIC DEPOSITION OF DEUTRON IN TUNGSTEN, BERYLLIUM AND	tswang@lzu.edu.cn	China	P3
2a-PFM	66	Edward Gao 1 , Warren Nadvornick 1 , Russ Doerner 2 , Brian Williams 3 , and Nasr M Ghoniem 1	MULTISCALE MODELING AND EXPERIMENTAL VALIDATION OF HELIUM BUBBLE FORMATION AND	EdwardXiangGao@gmail.com	US	P3
2a-PFM	67	Miao Qu1*, Fanhang Kong1, Sha Yan1, Jianming Xue1, Yugang Wang1	Comparison of cracking behaviors on pure tungsten induced by different transient heat loads	qumiao@pku.edu.cn	China	P3
2a-PFM	77	L.M. Luo1,3*, Y.F. Zhou1, X.Y. Tan1, Y. Xu1,3, X. Zan1,3, Q. Xu2, K. Tokunaga4, X.Y. Zhu1,3, Y.C. Wu1,3,5*	Dual-Effects from Thermal Shock and Helium Irradiation on W-TiC Composites	luolaima@126.com	China	P3
2a-PFM	81	Owais Ahmed Waseem1, 2*, Kevin Woller2, Dennis Whyte2, and Ho Jin Ryu1	Irradiation Resistance of High-Entropy Alloy-based Fusion Plasma Facing Material	owais.waseem@kaist.ac.kr	South Korea	P3
2c Breeding	2	Masaru Nakamichi1*, Jae-Kwan Kim1, Petr Kurinsky1	OXIDATION AND GRANULATION BEHAVIORS OF Be13Zr PEBBLES ADDED BY Si AS ADVANCED	nakamichi.masaru@qst.go.jp	Japan	P3
2c Breeding	4	N. Catarino1, Luis C. Alves2, M. Dias1, Nuno P. Barradas2, Sander van Til3,	Oxidation behaviour of neutron irradiated Be pebbles	ealves@ctn.tecnico.ulisboa.pt	EU	P3
2c Breeding	5	Jae-Hwan Kim, Masaru Nakamichi	MECHANICAL STRENGTH OF BERYLLIDE PEBBLES AS ADVANCED NEUTRON MULTIPLIERS	kim.jaehwan@qst.go.jp	Japan	P3
2c Breeding	6	Keisuke Mukai,1* Ryuta Kasada,2 Kiyohiro Yabuuchi,1 Satoshi Konishi,1 Jae-Hwan Kim,3 and Masaru. Nakamichi3	Chemical state analysis of steamed Be12V beryllides by soft X-ray emission spectroscopy	k-mukai@iae.kyoto-u.ac.jp	Japan	P3
2c Breeding	8	Ramil Gaisin1*, Vladimir Chakin1, Rolf Roll1, Harald Leiste1, Aniceto Goraieb2, Pavel Vladimirov1	EFFECT OF HOT ISOSTATIC PRESSING TEMPERATURE ON MICROSTRUCTURE AND PROPERTIES OF HOT-	ramil.gaisin@kit.edu	EU	P3
2c Breeding	9	Taotao jin*, Hongguang Yang, Shanshan Liu, Changshui He, Xiaoming Yuan, Qin Zhan	Study on the fabrication and properties of the lithium orthosilicate pebbles by improved gel-casting method	jtt10mse@163.com	China	P3
2c Breeding	10	Yuichi Furuyama, Masaaki Yamamoto, Yuma Akita, Tsubasa Takeda, Hiroaki Samata, Akira Taniike	CO2 absorption characteristics of a blanket candidate material Li2TiO3 under moist air exposure	furuyama@maritime.kobe-u.ac.jp	Japan	P3

2c Breeding	11	Megha Sanjeev*, Samuel T. Murphy	Thermal Conductivity of Li <sub>2</sub> TiO <sub>3</sub> by Atomistic Simulation	m.sanjeev@lancaster.ac.uk	EU	P3
2c Breeding (Reviewed under 1f OSA)	14	Nicola Helfer1*, Jens Bröder2, Hans Rudolf Koslowski1, Christian Linsmeier1	Phase Stability of Beryllium-Titanium Intermetallic Compounds	n.helfer@fz-juelich.de	EU	P3
2c Breeding	15	Yi-Hyun Park1*, Jongil Kim1, Mu-Young Ahn1, Youngmin Lee1, Seungyon Cho1	MAXIMUM OPERATING TEMPERATURE FOR LI <sub>2</sub> TiO <sub>3</sub> PEBBLE BED BY SINTERING PHENOMENON	yhpark@nfri.re.kr	South Korea	P3
2d Other	1	Philip D Edmondson	RADIATION EFFECTS IN HIGH TEMPERATURE SUPERCONDUCTORS: CURRENT PROGRESS AND	edmondsonpd@ornl.gov	US	P3
2d Other	2	Naoko Ashikawa1,2*, Toshikio Takimoto3, Akira Tonegawa3, Yoshihito Matsumura3, Kazunari Katayama4	Detection of permeated hydrogen isotopes into plasma facing material using combined specimen with	ashikawa@nifs.ac.jp	Japan	P3
3a TBM	3	Chang-An CHEN1*, Zhanlei WANG1, Xin Xiang1, Guangda Lu1, Chunjing Li2, Yongjin Feng3	Research Progress on Tritium Compatibility Issues for China RAFM Steels to Be Served as the Tritium Breeding Blanket	Chenchangan@caep.cn	China	P3
3a TBM	4	Milan Zmitko1*, Noel Thomas2, Laurent Forest3, Laurence Cogneau4, Yves Poitevin5	Current achievements and future perspectives in development, standardization and qualification of	milan.zmitko@f4e.europa.eu	EU	P3
3b ITER Materials	1	Arkady Serikov1*, Luciano Bertalot2, Ulrich Fischer1, Dieter Leichterle1	TRANSMUTATION EFFECTS IN MATERIALS FOR ITER DIAGNOSTICS	arkady.serikov@kit.edu	EU	P3
3d Testing	1	Xiang Chen1*, Arunodaya Bhattacharya1, Tim Graening2, Logan N. Clowers1, Mikhail A. Sokolov1, Josina W. Geringer1, Kory D. Linton1,	POST-IRRADIATION EVALUATION OF EUROFER97 FRACTURE TOUGHNESS USING	chenx2@ornl.gov	US	P3
3d Testing	2	Josina W. Geringer*, Padhraic L. Mulligan, Richard Howard, Nesrin Cetiner, Christian M. Petrie, Joel L. McDuffee, Kevin Field, Yutai	HFIR IRRADIATION ENGINEERING FOR FUSION MATERIALS	geringerjw@ornl.gov	US	P3
3d Testing	3	Josina W. Geringer*, Xiang Chen, Philip Edmondson, Xunxiang Hu, Hsin Wang, Anne Campbell, Arunodaya Bhattacharya, Kory Linton, Yutai Katoh	RECENT ENHANCEMENT OF ORNL PIE CAPABILITIES	geringerjw@ornl.gov	US	P3
3d Testing	4	Andres Morell-Pacheco*, Laura Hawkins, Hyosim Kim, Jonathan Gigax, Frank A. Garner, and Lin Shao	MAPPING OF SWELLING AND HARDNESS OF 316L AS A FUNCTION OF STRESS THROUGH A COMBINATION	anmorell@tamu.edu	US	P3
3d Testing	5	Alexander Valentin Brabänder, Hans-Christian Schneider, Marc Kamlah	An Advanced Characterization Method of Ductile-to-brittle-transition-temperature of Neutron-	alexander.brabaender@kit.edu	EU	P3
3d Testing	6	Michael Mahler*, Stephane Fessi, Jarir Aktaa	Simplified Ductile Approach for fracture-mechanical SSTT and its application to Eurofer97	Michael.Mahler@kit.edu	EU	P3
3d Testing	7	Weihua Zhong, Zhenfeng Tong*, Guangsheng Ning, Ziyang Zhou, Wen Yang	Fracture toughness test on miniature specimen of Chinese RAFM	121046720@qq.com	China	P3
3d Testing	8	David Andres1*, Mike Gorley1, Elizabeth Surrey1	APPLICATION OF THE SMALL PUNCH TESTING TECHNIQUE ON FUSION MATERIALS	David.Andres@ukaea.uk	EU	P3
3d Testing	9	Adrian S. Sabau1*, Kazutoshi Tokunaga2, Kenzo Ibano3, Charles R. Schaich1, Daniel T. Moore1, and Yutai Katoh1	A 6 MW/m <sup>2</sup> INFRARED HIGH-HEAT FLUX TEST FACILITY FOR HIGH-THROUGHPUT SCREENING OF IRRADIATED	sabau@ornl.gov	US	P3

3d Testing	11	Richard H. Howard*, Ryan C. Gallagher, Josina W. Geringer, Yutai Katoh	USING SURFACE RESPONSE METHODS TO RAPIDLY AND EFFICIENTLY DESIGN HFIR FUSION MATERIALS	howardrh@ornl.gov	US	P3
3d Testing	12	Takuya Yamamoto*, Soupitak Pal and G. Robert Odette	DEVELOPING UNIFIED MICROHARDNESS - TENSILE – NANOINDENTATION RELATIONS TO TRUE STRESS-	yamataku@ucsb.edu	US	P3
4 Materials Design Interface	1	Denis L.S. Sornin 1*, N. Lochet 1, R. Marull 1, L. Forest2	Double walled heat exchanger tube design and manufacturing for Water Cooled Lithium Lead breeder	denis.sornin@cea.fr	EU	P3
4 Materials Design Interface	2	Kurt Terrani*	ADVANCED MANUFACTURING FOR NUCLEAR ENERGY SYSTEMS: OPPORTUNITIES FOR FUSION	terrnika@ornl.gov	US	P3
4 Materials Design Interface	3	J. Aktaa*, M. Walter, Matthias Kolb, R. Knitter	Assessment of the chemical compatibility between EUROFER and ceramic breeder with respect to	jarir.aktaa@kit.edu	EU	P3
5e Adv Charact (Moved to 4 MDI)	4	A.F. Rowcliffe*, C.E. Kessel, Y. Katoh	MATERIALS-DESIGN INTEGRATION FOR THE NEXT PHASE OF FNSF DESIGN STUDIES	art.rowcliffe@gmail.com	US	P3
4 Materials Design Interface	5	Simon Heuer*, Jan W. Coenen, Gerald Pintsuk, Christian Linsmeier	Ageing behavior of functionally graded iron/tungsten materials, used as stress-relieving interlayers	s.heuer@fz-juelich.de	EU	P3
5a-Defect Production	1	O. V. Ogorodnikova1,*, M. Majerle2, V.V. Gann3, J. Cizek4, P. Hruska4, S.Simakov5, M. Stefanik2, V. Zach2	EXPERIMENTAL STUDY OF PRIMARY RADIATION DEFECTS IN W AND Fe	olga@plasma.mephi.ru	Russia	P3
5a-Defect Production	2	Vladimir Vojtech*1, Robin Schäublin1, Dongsheng Song2, Rafal Dunin-Borkowski2, Jörg F. Löffler1	Relationship between radiation-induced dislocation loops and the local magnetic field in Fe(Cr)	Vladimir.vojtech@mat.ethz.ch	Switzerland	P3
5a-Defect Production	3	John Echols1*, Lauren M. Garrison1, Yutai Katoh1, Masafumi Akiyoshi2	ELECTRICAL RESISTIVITY OF IRRADIATED TUNGSTEN	echolsster@gmail.com	US	P3
5a-Defect Production	5	S. Agarwal1, C. Li1, Y-Ru Lin1, R. Stoller2, S. J. Zinkle1,2	On using SRIM for correctly calculating dpa: Quick Kinchin-Pease versus Full-cascade option	sagarwa8@utk.edu	US	P3
5a-Defect Production	7	Yuta Ono1*, N. Hashimoto2, Wei-Ying Chen3	Mobility of point defects in CoCrFeNi-base High Entropy Alloys	hasimoto@eng.hokudai.ac.jp	Japan	P3
5a-Defect Production	11	Jingping Xin1,2, *, Qunying Huang1, Yong Dai2, FDSTeam1	NANOSCALE DEFECTS AND ITS EFFECT ON PROPERTIES OF CLAM STEEL UNDER HIGH ENERGY	jingping.xin@fds.org.cn	China	P3
5a-Defect Production	12	Pär Olsson1*, Timofiy Lukinov1, Charlotte Becquart2, Rebecca Alexander2, Zoi Kotsina3, Michal Axiotis3, George Apostolopoulos3	Coupled theoretical and experimental determination of residual resistivity for defects in fusion reactor	polsson@kth.se	EU	P3
5a-Defect Production	13	Sana Cao1*, Qing Peng1, Brian Wirth2, Fei Gao1	Modeling point defect cluster absorption bias of Cavities in FeCr Alloys	sanacao@umich.edu	US	P3
5a-Defect Production (Could also be 6e)	16	Jesper Byggmästar1*, Ali Hamedani1, Kai Nordlund1, Flyura Djurabekova1	MACHINE-LEARNING INTERATOMIC POTENTIALS FOR RADIATION DAMAGE IN BCC METALS	jesper.byggmatar@helsinki.fi	EU	P3
5a-Defect Production (Could also be 6b)	17	Yuri Osetsky	DYNAMICS OF INTERSTITIAL DEFECTS IN TUNGSTEN-RHENIUM ALLOYS	osetskiyyn@ornl.gov	US	P3

5b Microstructure	27	Jin Gao1*, Kiyohiro Yabuuchi1, Peng Song1, Akihiko Kimura1, Yuuki Yamasaki2, Kan Sakamoto3, Shinichiro Yamashita4	COMPARISON BETWEEN NEUTRON AND SELF-ION IRRADIATION EFFECTS ON ODS Fe-12Cr-6Al AT 290 °C	j-gao@iae.kyoto-u.ac.jp	Japan	P3
5b Microstructure	28	Robert E. Rudd1*, Timofey Frolov1 and Jaime Marian2	TUNGSTEN GRAIN BOUNDARY MOBILITY	robert.rudd@llnl.gov	US	P3
5b Microstructure		Masafumi Akiyoshi1, Lauren M. Garrison2, Josina W. Geringer2, Hsin Wang2, Akira Hasegawa3, Syuhei Nogami3 and Yutai Katoh2	THERMAL DIFFUSIVITY OF IRRADIATED TUNGSTEN AND TUNGSTEN-RHENIUM ALLOYS	akiyoshi@riast.osakafu-u.ac.jp	Japan	P3
5b Microstructure	33	Xiang Liu1*, Mukesh Bachhav1, Lingfeng He1, Emmanuel Perez1, Megha Dubey2, Jatuporn Burns2	ATOM PROBE TOMOGRAPHY AND ENERGY DISPERSIVE X-RAY SPECTROSCOPY STUDY OF RADIATION-INDUCED	xiang.liu@inl.gov	US	P3
5c Mechanical Properties	1	Arunodaya Bhattacharya1*, Xiang Chen1, Josina W. Geringer1, Tim Graening2, Yutai Katoh1, Michael Rieth2	MICROSTRUCTURE AND PROPERTY DEGRADATION OF EUROFER97 IN NON-STANDARD METALLURGICAL	bhattacharya@ornl.gov	US	P3
5c Mechanical Properties	2	Yeonju Oh1*, Nojun Kwak1, Ki-Baek Roh2, Gon-Ho Kim2, and Heung Nam Han1	Microstructure dependence on the nano-mechanical properties of deuterium irradiated tungsten	oyj1013@snu.ac.kr	South Korea	P3
5c Mechanical Properties	4	S Dellis1, Xiazi Xiao2, A. Bakaev3, S. Krimpalis1, K. Mergia1*, S. Messoloras1 and D. Terentyev3	Mechanical properties of neutron irradiated single crystal tungsten studied by non-destructive mechanical	kmergia@ipta.demokritos.gr	EU	P3
5c Mechanical Properties	5	Lauren M. Garrison1*, Yutai Katoh1, Wilna Geringer1, Masafumi Akiyoshi2, Takeshi Miyazawa3, Xiang Chen1, John Echols1, Tim Graening1, Akira	MECHANICAL AND THERMAL PROPERTY CHANGES IN IRRADIATED TUNGSTEN	garrisonlm@ornl.gov	US	P3
5c Mechanical Properties	6	Atsushi Kiyohara1*, Koichi Sato1, Hayato Yamashita1, Masahira Onoue2, Qiu Xu3, Kiyohiro Yabuuchi4, Akihiko Kimura4, Ryuta Kasada5	EFFECT OF HYDROGEN ON THE SURFACE HARDNESS IN ION-IRRADIATED TUNGSTEN	k7877259@kadai.jp	Japan	P3
5c Mechanical Properties	7	Shuhei Nogami1*, Akira Hasegawa1, and Masanori Yamazaki2	FATIGUE PROPERTIES OF FERRITIC/MARTENSITIC STEEL AFTER NEUTRON IRRADIATION AND	shuhei.nogami@qse.tohoku.ac.jp	Japan	P3
5c Mechanical Properties	11	Pengcheng Zhu1*, Shradha Agarwal1, Yajie Zhao1, Steven J.Zinkle1,2	EXAMINATION OF HARDENING IN ION IRRADIATED Fe14Cr ALLOY BY SPHERICAL AND	pzhu2@vols.utk.edu	US	P3
5c Mechanical Properties	12	Yuguang Chen1, Chonghong Zhang1*, Zhaonan Ding1, Xianlong Zhang1, Yitao Yang1, Yin Song1, Akihiko Kimura2	Hardening/embrittlement of An Al-added 16Cr ODS Ferritic Steel Irradiated with High-energy Heavy Ions	c.h.zhang@impcas.ac.cn	China	P3
5d He T H	17	Wahyu Setyawan1*, Charles H. Henager Jr.1	AB INITIO STUDY OF HELIUM EFFECTS AND HYDROGEN RETENTION ON W/Ni-Fe COMPOSITE INTERPHASE	wahyu.setyawan@pnnl.gov	US	P3
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6a Multi Scale Model	5	Xuebang Wu 1*, X. Zhang 1, Z.M. Xie 1, Xiangyan Li 1, C.R. Miranda 2, and C.S. Liu 1*	First principles prediction of stability and light elements trapping of interfaces between tungsten and	xbwu@issp.ac.cn	China	P3
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