

Poster ID	Name (Given)	Name (Surname)	Affiliation	Abstract Title	Category
P1-001	C Christopher	Klepper	Oak Ridge National Laboratory - ORNL	Viability of adapting sapphire fibers for in-situ optical spectroscopy-based, fusion nuclear environment, measurement and control applications	Material Engineering for FNT
P1-002	James	Dark	Massachusetts Institute of Technology - MIT	Multi-physics Modelling of Tritium-Facing Components: Coupling External Tools to FESTIM	Blanket Technology
P1-003	Lane	Carasik	Virginia Commonwealth University	Preliminary Investigations of Liquid Metal Based Heat Exchanger Options for Liquid Breeder based Fusion Energy Systems	Blanket Technology
P1-004	Lane	Carasik	Virginia Commonwealth University	Initial Lab-Scaled Surrogate Fluid Experiments of Liquid Gas Contactors for ARC Fusion Energy Systems	Fuel Cycle and Tritium Processing
P1-005	Salvatore	d'Amico	Karlsruhe Institute of Technology - KIT	EUROfusion and F4E collaboration on R&D for Breeding Blankets and relevant Test Blanket Modules	Blanket Technology
P1-006	Konrad	Witek	Oak Ridge National Laboratory - ORNL	Magnetic Shielding Design for Quadrupole Mass Spectrometers in the ITER Diagnostic Residual Gas Analyzer	Repair and Maintenance
P1-007	Promise	Adebayo-Ige	University of Tennessee, Knoxville - UTK	3-D Inverse Analysis Heat Flux Calculations in NSTX and MAST-U	
P1-008	Asyl	Akhanov	INP, Almaty, Kazakhstan	Analysis of tritium release from neutron-irradiated lithium titanosilicate Li4SiO4/Li2TiO3 by thermal desorption spectroscopy	Fuel Cycle and Tritium Processing
P1-009	Theodore	Biewer	Oak Ridge National Laboratory - ORNL	Assessing Fusion Reactor Control with Reduced Sets of Diagnostic Sensors and Actuators	Burning Plasma Control and Operation
P1-010	Himank	Anand	General Atomics - GA	Plasma shape control development for supporting pedestal stability experiments on MAST-U tokamak	Burning Plasma Control and Operation
P1-011	Jayakrishnan	Appanam Karakkad	US ITER RF Engineer, ORNL	50 Ohm Transmission line prototype testing for the ITER Ion Cyclotron Heating and Current Drive System	Models and Experiments for FNT
P1-012	Pietro	Arena	Italian National Agency for New Technologies, Energy and Sustainable Economic Development - ENEA	Preliminary design of a WCLL Test Blanket Unit to be tested in IFMIF-DONES	Blanket Technology

P1-013	Saulet	Askerbekov	Institute of Nuclear Physics (Almaty, Kazakhstan) and IETP al-Farabi Kazakh National University (Almaty, Kazakhstan)	Experimental study of mechanisms of tritium release from neutron-irradiated lithium metatitanate by thermal desorption method	Fuel Cycle and Tritium Processing
P1-014	Azman	Azka	Karlsruhe Institute of Technology - KIT	Investigation of Machine Vision Assisted Surface Feature Detection for In-bore Visual Inspection	Repair and Maintenance
P1-015	Nicolo'	Badodi	Italian National Agency for New Technologies, Energy and Sustainable Economic Development - ENEA	CFD Simulation of High-pressure Water Injection in PbLi and its Validation Against the LIFUS5/Mod3 Experimental Database	Blanket Technology
P1-016	Mahmoud	Bakr	University of Bristol and Astral systems	Engineering Considerations in the Construction of the Multi-State Fusion Reactor and Its Applications in Industrial Irradiation and Medical Fields	Inertial Confinement Fusion Studies and Technologies
P1-017	Michael	DeVinney	Oak Ridge National Laboratory - ORNL	Actively Cooled Edge-Transport Diagnostic Test Article Validation	Plasma-Facing High Heat Flux Components
P1-018	Vittorio	Badalassi	Oak Ridge National Laboratory - ORNL	Nested Pebble Bed Blanket (NesPeB)	Blanket Technology
P1-019	Nicolas	Bekris	Karlsruhe Institute of Technology - KIT	Experimental Assessment of Temperature Rise in ZrCo Getter Beds During Hydrogen Absorption for ITER Applications	Fuel Cycle and Tritium Processing
P1-020	Davide	Bernardi	Italian National Agency for New Technologies, Energy and Sustainable Economic Development - ENEA	Refurbishment of the GIUNONE press at the ENEA Brasimone R.C. and preparation of the test campaign for the verification of electrical insulation of CS mock-ups for the DTT facility	Models and Experiments for FNT
P1-021	Tom	Berry	United Kingdom Atomic Energy Authority - UKAEA	Parametrised Modelling of the Activation of Fluids in Complex Circuits	Safety Issues and Waste Management
P1-022	Amrita	Bhattacharya	INDEPENDENT RESEARCHER	A theoretical high-confinement scenario devoid of the Resistive Ballooning Mode effects in an arbitrary Spherical Tokamak plasma configuration with central density exceeding the Greenwald limit	Burning Plasma Control and Operation
P1-023	Daniel	Birlan	École Polytechnique Fédérale de Lausanne - EPFL	Progress on the design of the EU DEMO EC ex vessel waveguide system with enhanced remote maintainability	Vacuum Vessel and Ex-vessel Systems
P1-024	Anthony	Garcia	University of Wisconsin, Madison - UW Madison	Analysis of the Thermal Effect of Plasma Disruptions on Plasma Facing Components	Plasma-Facing High Heat Flux Components

P1-025	Ugo	Bonavolontà	Nier Ingegneria S.p.A.	Design Optimization of ITER Auxiliary Systems Water-Cooled Lithium-Lead Test Blanket Modules (WCLL-TBM)	Fuel Cycle and Tritium Processing
P1-026	Gaetano	Bongiovi	University of Palermo	Numerical thermo-mechanical analyses in support of the conceptual design of the EU DEMO Balance of Plant system	Vacuum Vessel and Ex-vessel Systems
P1-027	Rémi	Boullon	Université Paris-Saclay, CEA, Service de Recherche en Matériaux et procédés Avancés, 91191, Gif-Sur-Yvette, France	On the manufacturing of the European Test Blanket Modules for ITER	Material Engineering for FNT
P1-028	William	Brace	VTT Technical Research Centre of Finland Ltd	Concept Maturity Level Valuation Through Risk Assessment for Remote Maintenance Equipment Conceptualisation	Repair and Maintenance
P1-029	Leonids	Buligins	University of Latvia	High Flowrate Permanent Magnet Liquid Metal Electromagnetic Pumps for Fusion Applications – Theory and Experiments	Nuclear System Design
P1-030	Sara	Buonocore	Università degli Studi di Napoli Federico II, Consorzio CREATE / DII,	Lessons Learned and Best Practices to Make Nuclear Fusion “XR ready”: DTT use case	Nuclear System Design
P1-031	Marco	Calviani	CERN	Design perspectives for the CERN’s Beam Dump Facility and its impact on the fusion community	Plasma-Facing High Heat Flux Components
P1-032	Simone	Carusotti	University of Tuscia	Experimental Investigation of Electromagnetic Loads on HTS and Copper Coils in the TRUST Project Framework	Models and Experiments for FNT
P1-033	Adam	Barker	University of Manchester	A Machine Learning approach to Breeder Blanket optimisation for Fusion Tokamaks	Blanket Technology
P1-034	Francesca Maria	Castrovinci	Italian National Agency for New Technologies, Energy and Sustainable Economic Development - ENEA	Thermomechanical assessment and design of the first wall mock-up to be tested in the Water Loop facility in support of the DEMO Water-Cooled Lead Lithium Breeding Blanket technology	Blanket Technology
P1-035	Sebastiano	Cataldo	Italian National Agency for New Technologies, Energy and Sustainable Economic Development - ENEA	Lead-lithium corrosion and Tritium permeation barrier coatings in WCLL-BB	Material Engineering for FNT
P1-036	Francesca	Cau	Fusion for Energy - F4E	Analysis, Design and Testing of the JT-60 SA Tungsten Divertor	Plasma-Facing High Heat Flux Components
P1-037	John	Chapman	Chapman Nuclear	PWR Fusion-Fusion Reactor Design	Nuclear System Design

P1-038	Christophe	Garnier	French Alternative Energies and Atomic Energy Commission - CEA	Thermomechanical Design Activity for the Development of the Alternative Water-Cooled WLCB Breeding Blanket concept for DEMO	Blanket Technology
P1-039	Kuo-Liang	Chuang	University of Edinburgh	The Effect of Gas Sparging on Molten Salt Systems	Blanket Technology
P1-040	Vittorio	Cossu	Italian National Agency for New Technologies, Energy and Sustainable Economic Development - ENEA	Assessment of Recent Improvements to the SIMMER Code for WCLL Safety Analysis Based on the LIFUS5/Mod3 Experimental Campaign	Blanket Technology
P1-041	Aljaž	Čufar	Jozef Stefan Institute	Impact of Neutronics Analyses on the Lower Port Configuration of 2024 Volumetric Neutron Source	Models and Experiments for FNT
P1-042	JunHyeok	Byun	Seoul National University	Feasibility of Partial Solenoid Start-up at Upper Chamber in VEST	Burning Plasma Control and Operation
P1-043	Adam	Cureton	United Kingdom Atomic Energy Authority - UKAEA	Finding a viable pellet line routing for inboard pellet injection on the compact Spherical Tokamak for Energy Production (STEP)	Fuel Cycle and Tritium Processing
P1-044	Bamidele	Ebiwonjumi	Massachusetts Institute of Technology - MIT	Investigation of Tritium Production Sensitivities for Several Breeding Blankets using OpenMC	Blanket Technology
P1-045	Marica	Eboli	Italian National Agency for New Technologies, Energy and Sustainable Economic Development - ENEA	Modelling activities using SIMMER-III code to support the LIFUS5/Mod3 Series E experimental campaign	Models and Experiments for FNT
P1-046	Nejdet	Erkan	United Kingdom Atomic Energy Authority - UKAEA	UKAEA's progress along its Liquid Metals Roadmap: the commissioned SMALLAB loop	Blanket Technology
P1-047	Yuto	Tamura	Tohoku University	Feasibility of the minor actinides transmutation in a D-D fusion system driven by D-beam	Fission-Fusion Synergy and Cross-cutting Technologies
P1-048	Sunday	Aduloju	Oak Ridge National Laboratory - ORNL	Determination of the Structural Stability of Large Fusion In-Vessel Components under Transient Loads	Blanket Technology
P1-049	Ragai	Altamimi	Oak Ridge National Laboratory - ORNL	RELAP5-based Thermal-Hydraulic Modeling and Coupling for Fusion Reactor Balance of Plant	Vacuum Vessel and Ex-vessel Systems
P1-050	Julijan	Peric	Jozef Stefan Institute	Neutron Detector Calibration for the KATANA Facility: Experimental and Computational Validation of Water Activation Neutron Emission	Fission-Fusion Synergy and Cross-cutting Technologies

P1-051	Davide	Flammini	Italian National Agency for New Technologies, Energy and Sustainable Economic Development - ENEA	Pre-analysis of the concrete shielding benchmark experiment under 14 MeV neutrons at the Frascati Neutron Generator	Models and Experiments for FNT
P1-052	Ning	Gao	Shandong University	Enhanced resistance to radiation and magnetic anisotropy change by periodic pattern of dislocation networks at a W/Fe interface	Material Engineering for FNT
P1-053	El Mehdi	Ghardi	Bangor University, (Gwynedd, United Kingdom)	Radioactive Inventories of Fusion power plants: Challenges and Perspectives	Safety Issues and Waste Management
P1-054	Callum	Grove	United Kingdom Atomic Energy Authority - UKAEA	Irradiation of ITER material activation foils within JET's DTE3 experimental campaign	Models and Experiments for FNT
P1-055	Nils-Werner	Holstein	Karlsruhe Institute of Technology - KIT	Electrochemical system applications in Fusion Nuclear Technology	Material Engineering for FNT
P1-056	Donkoan	Hwang	University of Wisconsin, Madison - UW Madison	Sensitivity Analysis of Rupture Disk Area in Vacuum Vessel Pressure Suppression Systems under In-Vessel Break Scenarios Using the Suppression Effectiveness Index	Safety Issues and Waste Management
P1-057	Dengel	Jonas	Karlsruhe Institute of Technology - KIT	Mechanical Multi-Pipe Connection: Simulation Study and Proof-of-Concept for Future Experimental Validation	Repair and Maintenance
P1-058	Emil	Jonasson	United Kingdom Atomic Energy Authority - UKAEA	Analysis of force-torque sensor data requirements for successful fusion remote maintenance automation implementation	Repair and Maintenance
P1-059	Emil	Jonasson	United Kingdom Atomic Energy Authority - UKAEA	Development and testing of prototype MGy gamma radiation hardened LIDAR sensor	Repair and Maintenance
P1-060	Collin	Dunn	Massachusetts Institute of Technology - MIT	LIBRA Experiments: Characterizing angular dependence of DT neutron generator fluence	Blanket Technology
P1-061	Travis	Gray	Oak Ridge National Laboratory - ORNL	High Heat Flux Testing and Validation of a Helium-cooled, Additively Manufactured Tungsten Plasma Facing Component	Plasma-Facing High Heat Flux Components
P1-062	Alžběta	Endrychová	Czech Technical University in Prague - CTU	Thermal Performance of Deposited W and W/Mo Coatings on Graphite for Plasma-Facing Components	Material Engineering for FNT
P1-063	Philip	Edmondson	University of Manchester	Development and deployment of a Bayesian approach to tritium inventory modelling in the industrial metaverse	Fuel Cycle and Tritium Processing

P1-064	Philip	Edmondson	University of Manchester	Lifetime assessment of a novel Li2Be2O3 breeding ceramic for fusion power – a neutron inventory and density functional theory investigation	Blanket Technology
P1-065	Christine	Klein	Karlsruhe Institute of Technology - KIT	Tuning of Generalized K-Omega Turbulence Model for Prediction of Heat transfer and Pressure Drop for Helium Cooled Demo FW Channels	Plasma-Facing High Heat Flux Components
P1-066	Kaitlyn	Butler	University of Tennessee, Knoxville - UTK	Erosion and H Retention Measurements of W and SiC Materials for RF Antenna Applications	Material Engineering for FNT
P1-067	Hirotsu	Kishimoto	Muroran Institute of Technology	Effects of Fabrication Method of SiC and Ion Irradiation for the Diffusion Bonded interface on W/SiC Joints	Material Engineering for FNT
P1-068	Domen	Kotnik	Jožef Stefan Institute	Neutron flux characterisation inside inner irradiation Snail head of the KATANA facility at JSI TRIGA reactor	Fission-Fusion Synergy and Cross-cutting Technologies
P1-069	Mark	Fortuna	Jožef Stefan Institute	Experimental and Computational Assessment of the New TCV Radiological Shield	Models and Experiments for FNT
P1-070	Ákos	Gyenge	HUN-REN Centre for Energy Research	Fluid Dynamics simulations of gas retention systems of shattered pellet injectors	Models and Experiments for FNT
P1-071	Alberto	Bittesnich	Fusion for Energy - F4E and Universitat Politècnica de Catalunya	Simulation of MHD plasma equilibria and evolutions by APEC-M code	Nuclear System Design
P1-072	Marta	Damiano	University of Tor Vergata	GENeSIS: a neutron test bed facility for diagnostics and critical components of ITER	Nuclear System Design
P1-074	Marino	Corrado	Politecnico di Torino	Geometrical Scale Down Analyses of the EU-DEMO WCLL BZ Water U-Manifolds	Plasma-Facing High Heat Flux Components
P1-075	Andrea	Ciula	University of Tuscia	Optimized design and structural verification of modular plasma facing units with tungsten lattice armor for DEMO limiters	Plasma-Facing High Heat Flux Components
P1-076	Aljoša	Gajšek	Jožef Stefan Institute	Boiling Flow Simulations at High Heat Flux conditions	Plasma-Facing High Heat Flux Components
P1-077	Andrea	Clagnan	University of Trieste (Trieste, Italy.) and University of Naples Federico II (Naples, Italy)	Divertor System for EU-DEMO: CAD Design progress in the Low Aspect Ratio Configuration	Plasma-Facing High Heat Flux Components
P1-078	Samah	Balouza	Pennsylvania State University	Surface Segregation and Sputtering Behavior of Eutectic and Al-Rich Al-Sn Alloys as Plasma-Facing Materials	Plasma-Facing High Heat Flux Components

P1-079	Elisabetta	Carella	Center for Energy, Environmental and Technological Research - CIEMAT	Optimized a-SiC Coatings: Enhanced Performance and Durability in Fusion Environments	Blanket Technology
P1-080	Gianluca	D'Ovidio	Center for Energy, Environmental and Technological Research - CIEMAT	Experimental investigations on lithium chemical reactivity under conditions relevant for the IFMIF-DONES facility	Safety Issues and Waste Management
P1-081	Libin	Babu	Type One Energy Group	Industry Readiness of Engineering Codes and Standards for Fusion Structural Applications: Leveraging ASME and RCC-MRx Frameworks	Nuclear System Design
P1-082	Dipal	Gohil	Gujarat Technological University - GTU	Repair and Maintenance	Repair and Maintenance
P1-083	Brennan	Ferrington	Vanderbilt University	Integration of Safety into the Design of Fusion Power Plants	Safety Issues and Waste Management
P1-084	Minghuang	Wang	International Academy of Neutron Science (Chongqing, China) and Institute of Plasma Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences (ASIPP)	Overview and Prospects for Fusion Fission Hybrid System Development in China	Fission-Fusion Synergy and Cross-cutting Technologies
P1-085	Vincenzo	Claps	University of Basilicata	Design and integration of Volumetric neutron Source Upper Port Shield Plug	Vacuum Vessel and Ex-vessel Systems
P1-086	John Michael		Oak Ridge National Laboratory (ORNL) - US ITER	Seismic and Mechanical Testing of ConFlat Flanges for ITER Vacuum System ASME B31.3 Qualification	Vacuum Vessel and Ex-vessel Systems
P1-087	Gaetano	Aiello	Karlsruhe Institute of Technology - KIT	Performance of the W7-X ECRH gyrotron diamond output window at 2 MW operation	Vacuum Vessel and Ex-vessel Systems
P1-088	Zachary	Fusinski	Oak Ridge National Laboratory - ORNL	Structural Analysis for DCLL Blanket Design Prototype	Blanket Technology
P1-089	Thomas	Franke	EUROfusion Consortium	Auxiliary Heating and Current Drive Systems in the European Volumetric Neutron Source - Design Principles and Operational Schemes	Nuclear System Design
P1-090	Iretunde	Akinsola	Lane College	A Framework for Optimizing the Fusion Blanket First Wall	Blanket Technology
P1-091	Oluwaseyi	Amisu	Oak Ridge National Laboratory - ORNL	Design and Thermomechanical Modeling of Functionally Graded First Wall of a Fusion Reactor	Plasma-Facing High Heat Flux Components
P1-092	Xavier	Angus	University of New Mexico, Albuquerque - UNM	The Development of a Forced Convection Lead-Lithium Loop at the University of New Mexico	Blanket Technology

P1-093	Daniel	Levario	University of New Mexico, Albuquerque - UNM	Corrosion Behavior of Stainless Steel 316 in Lead-Lithium at 550 °C Under Stresses up to 150 Mpa	Blanket Technology
P1-094	John	Elling	Molten Salt Solutions	Lithium for Fusion Applications toward Standardization	
P1-095	Alex	Somers	Savannah River National Laboratory - SRNL	Fusion Fuel Cycle Detritiation Column Optimization Study	Fuel Cycle and Tritium Processing
P1-096	Claude	De Lamater-Brotherton	University of Tennessee, Knoxville - UTK	Compatibility of composite insulators with liquid Lithium	Plasma-Facing High Heat Flux Components