List of Posters - Session F1 - Friday 5:40PM-7:00PM Mark Twain Ballroom (Memorial Union)

	F1.00001	*Detection of Rare Molecular Transitions in a Sample of Massive Star Forming Regions*	LI LEE, ESTEBAN D. ARAYA	Western Illinois University
New	F1.00002a	*Studying TGE's Using Fixed Land-Based Detectors*	E. Bell, A. Keller, Z. Monti, B. Shannon, C. Turner, R. Williams and C. Fasano	Monmouth College
New	F1.00002b	*Calibration of Neutrino Detector Via the Decay of Cosmic Muons*	Emily Bell	Monmouth College
	F1.00003	*Optical absorption properties of Neodymium ions (Nd3+) doped lead boro tellurite glasses*	KINNARY PATEL, P.K. BABU, SAISUDHA MALLUR	Western Illinois University
	F1.00004	*Direct calculation of exciton binding energies with time-dependent density-functional theory*	ZENGHUI YANG, CARSTEN ULLRICH	University of Missouri
	F1.00005	*Molecular Dynamics Simulations of Melting of Nitromethane Initiated at Crystal-Rare Gas Interfaces*	GANESH KAMATH, ALI SIAVOSH-HAGHIGHI, THOMAS SEWELL, DONALD THOMPSON	University of North Texas, University of Missouri
	F1.00006	*Generalized Stacking Fault Energies in the Basal Plane of Triclinic Molecular Crystal 1,3,5-Triamino-2,4,6-Trinitrobenzene (TATB)*	NITHIN MATHEW, THOMAS SEWELL	University of Missouri
	F1.00007	*Radial distribution function of liquid argon in modified hard sphere model*	MICHAEL KORTH, SAESUN KIM	Univ of Minn - Morris
	F1.00008	*Effects of Annealing on the Structure and Properties of Mn5−xFexSi3*	ZACHARY SPENCE, CODY DAWSON, PEGGY HILL, IGOR DUBENKO, ABDIEL QUETZ, NAUSHAD ALI	Southeast Missouri State University, Southern Illinois University-Carbondale
	F1.00009	*Missing Material At The Buried Interface For Ag/Si(111)7x7 Thin Films Deposited at Glancing Angle*	S.T. HAYDEN, YIYAO CHEN, M.W. GRAMLICH, R.S. GARI, G.M. KING, P.F. MICELI	University of Missouri, University of Massachusetts - Amherst
	F1.00010	*Boron Doping of Activated Carbon*	MATTHEW CONNOLLY, ALEXANDER ST. JOHN, MATTHEW BECKNER, PETER PFEIFER, CARLOS WEXLER	University of Missouri
	F1.00011	*Fabrication and characterization of single-supported bilayer membranes of anionic lipids*	ANDREW MISKOWIEC, MENGJUN BAI, HASKELL TAUB, FLEMMING HANSEN	University of Missouri, Technical University of Denmark

F1.00012	*Interfacial structure and morphology of nano-crystalline Ag on Si(111)7x7: an in-situ x-ray scattering study*	YIYAO CHEN, M.W. GRAMLICH, S.T. HAYDEN, M.C. TRINGIDES, P.F. MICELI,	University of Missouri, Iowa State University
F1.00013	*Spin-Orbit Interaction and Rashba Effect in the 2D metal dichalcogenides*	MOHAMMAD MAHDI VALIZADEH, SHANAVAS K. VEEDU, SASHI SATPATHY	University of Missouri
F1.00014	*Magnetic and Magnetocaloric Properties of MnFe4Si3−xInx*	CODY DAWSON, ZACHARY SPENCE, P. HILL, IGOR DUBENKO, ABDIEL QUETZ, NAUSHAD ALI	Southeast Missouri State University, Southern Illinois University - Carbondale
F1.00015	*Forbidden Reflections and Interference Effects in X-ray Reflectivity from Si(111)7x7*	J.W. KREMENAK, YIYAO CHEN, S.T. HAYDEN, M.W. GRAMLICH, P.F. MICELI	University of Missouri, University of Massachusetts - Amherst
F1.00016	*Scaling analysis of the magnetic field-tuned quantum phase transition in superconducting amorphous Pb films*	NICHOLAS OLSON, ASHWANI KUMAR	Monmouth College
F1.00017	*Probing charge transfer complex (CTC) states in organic solar cells using photocurrent spectroscopy*	DHANASHREE MOGHE, PING YU, CATHERINE KANIMOZHI, SATISH PATIL, SUCHISMITA GUHA	University of Missouri
F1.00018	*Single Molecule Relaxation in Crystalline Nitromethane*	LUIS RIVERA-RIVERA, ALI SIAVOSH-HAGHIGHI, THOMAS SEWELL, DONALD THOMPSON	University of Missouri
F1.00019	*Theoretical determination of anisotropic thermal conductivity for crystalline 1,3,5-triamino-2,4,6-trinitrobenzene (TATB)*	MATTHEW KROONBLAWD, THOMAS SEWELL	University of Missouri
F1.00020	*Concentration-dependent embedded atom method potential for Al-Cu system*	SULEIMAN OLORIEGBE, SEWELL THOMAS, THOMPSON DONALD, ZHEN CHEN, SHAN JIANG, YONG GAN	University of Missouri
F1.00021	*Rotational -Vibrational Energy Transfer in OH(v,J)+ Ar at High Pressures*	REZVAN CHITSAZI, DONALD THOMPSON	University of Missouri

F1.00022	*A Study of the Effects of Basis Functions in Interpolating Moving Least Squares Methods for Fitting Potential Energy Surfaces*	YI SHI, DONALD THOMPSON	University of Missouri
F1.00023	*Super-resolved Microscopy via Coherent Population Oscillations*	KISHOR KAPALE, GIRISH AGARWAL	Western Illinois University, Oklahoma State University
F1.00024	*A DFT and Ab Initio Study of the Thermal Decomposition of 1,3,3-Trinitroazetidine (TNAZ)*	JEFFREY VEALS, DONALD THOMPSON	University of Missouri
F1.00025	*Controlled Focusing Properties with Cylindrical Vector Beams*	MAOJIN YUN, LIFENG DONG, WEI LV	Missouri State University, Qingda University
F1.00026			
F1.00027	*Effect of Potentiator VX-770 on the Kinetics of Disease-Associated Mutant CFTR Channels*	ZULEYHA YUK- SEK, ZOIA KOPEIKIN, SILVIA BOMPADRE,	University of Missouri
F1.00028	*The Isolated Nucleotide Binding Domains of CFTR Form Bipartate ATPase To Regulate ATP Consumption*	MARK PALMIER, SILVIA BOMPADRE	University of Missouri
F1.00029	*Monitoring the uniformity of alpha helices in lipophilic environments*	ANAHITA ZARE, JIAN XIONG, JASON COOLEY, RENEE JIJI	University of Missouri
F1.00030	*Structured mRNA induces the ribosome into a hyper-rotated state*	PETER CORNISH, PEIWU QIN, DONGMEI YU, XIAOBING ZUO	University of Missouri
F1.00031			
F1.00032	*Development of quantum mechanics laboratory for undergraduate teaching*	HARRISON KNOLL, PAUL MICELI, PING YU	University of Missouri
F1.00033	*Opposite Thought Experiment*	LORENTIN SMARANDACHE	University of New Mexico
F1.00034	*Hierarchical micro/nanostructure effect on the thermal performance of oscillating heat pipes*	FENG ZHANG, ROBERT WINHOLTZ, VITALY GRUZDEV, HONGBIN MA	University of Missouri
F1.00035	*Photovoltaic Properties of Electrochemical Deposited Cu2O/ZnO p-n Hetero junction*	MINGWEI SHANG, LIFENG DONG	Qingdao University of Science and Technology
F1.00036	*The Paradox of Special vs. General Theory of Relativity*	FLORENTIN SMARANDACHE	University of New Mexico
F1.00037	*Crustal Structure Beneath the Ozark Plateau and Illinois Basin using the OIINK Flexible Array*	JOSHUA RUSSELL, HERSH GILBERT, GARY PAVLIS	University of Missouri, Purdue University, Indiana University

F1.00038	*Neutron Diffraction of Li-Ion Battery Electrode Materials*	TYLER FEARS, HELMUT KAISER, HASKELL TAUB	Missouri University of Science and Technology, University of Missouri
F1.00039	*The Nuts and Bolts of Running a Graduate Student-Led Science Outreach Program*	MATTHEW MCCUNE, DEEPIKA MENON, KEVIN TARWATER, CHRISTOPHER OWENS	University of Missouri
F1.00040	*Generation of N-particle Dicke-Class States and their Application to Quantum Information Processing*	DANIEL DEYOUNG, KISHOR KAPALE	Western Illinois Univ
F1.00041	*Kitchen inspired nanochemistry: dispersive, exfoliation and hybridization of functional MoS2 nanosheets using culinary hydrocolloids*	UDHIR RAVULA, JEREMY B. ESSNER, GARY A. BAKER	University of Missouri
F1.00042			
F1.00043			
F1.00044			
F1.00045			
F1.00046			
F1.00047			