	Tomar Meeting Mar 10-15, 2019 (Sunday evening to Friday noon)	
	Sunday Evening: Dinner at the Hotel 6PM-9PM	
	Overview: 7 oral presentations in the morning before lunch and 6 in the afteroon session before dinner, Interspersed with Poster Displays, Discussions and Coffee Breaks. (Approximately 52 oral and 35 poster presentations)	
AM Schedule Mon, Tue, Wed, Thu (see below for Fri)	Start	8:30 AM
	4 talks	8:30 AM to 10:00 AM
	Break	10:00 AM to 10:30 AM
	Poster Highlights and Visitation	11:00 AM - 12 noon
	3 talks	12 noon - 1:00 PM
	Lunch 1:00 PM to 2:30 PM	
PM Schedule Mon, Tue, Thu.	Start	2:30 PM
	3 talks	2:30 PM to 3:45 PM
	Posters and Coffee	3:45 to 4:30 PM
	"All-hands-present" Discussion: Posters and Oral Presenations	4:30 PM to 5:30 PM
	3 talks (w/extended discussion)	5:30 PM to 7:00 PM
PM (Wednesday)	Excursion(s) in and around town. Back to the Hotel for Dinner	
	Dinner Approx. 7:00 to 8:30 PM (Su, Mo, Tu, We, Th))	
Posters	**Mon, Tue, Wed, Thu Approx. 8:30 PM to 11 PM**	
Friday AM Schedule	Start	8:30 AM
	3 talks, w/extended discussion	9:00 AM to 10:30 AM
	Break	10:30 AM to 11:00 AM
	3 talks, w/extended discussion	11:00 AM to 12:30 PM

	Program Topics	Mon AM	Mon PM	Tue AM	Tue PM	Wed AM	Thu AM	Thu PM	Fri AM
1P	Manufacturing (SPS, Large Samples, Sinterforging, Additive)								
2P	In-Situ and Ex-Situ Characterization and Methods (X-ray, TEM, Optical, Mechanical)								
3P	Computational and Analytical (First Principles, Molecular Dynamics, Models, Large Data)								
4P	Ionic Materials and Glasses (YSZ, Urania, Ceria, Liquid Phase)								
5P	Futuristic Discussion Topics (Heating Rate, Ionic/Electronic, Phonons/Electrons, Interfaces and Electrode Effects)								
6P	SPS and Microwave (Common Themes, Linkage to Flash)								
7P	Metallic, Conductive and Non-Oxides (Metals, Semiconductors, Carbon)								
8P	Complex Ceramics (Energy, Functional, Structural, Optical)								

Monday (AM):
8:30 AM to 1 PM
(Please see Front Page for the Schedule)

1P: Manufacturing (5 oral)
2P: Characterization (2 oral)

<-- POSTERS	Bram	Martin	m.bram@fz-juelich.de	Forschungszentrum Jülich GmbH	Germany	1P	Field assisted sintering of larger scaled ceramic parts using adapted tool design and hybrid heating
	Van der Laan	Antoine	van-der-laan@chimie.ups-t	CIRIMAT, Université de Toulouse, CNRS, France; Norimat, France	France	1P	Elaboration of complex shapes by Spark Plasma Sintering
	Prette	Andre L. G.	andre.prette@lucideon.con	LUCIDEON	UK	1P	Flash sintering of injection molded zirconia under AC electric field for enhancement of optical properties
	Guillon	Olivier	o.guillon@fz-juelich.de	Forschungszentrum Jülich GmbH	Germany	1P	Electrical field assisted sintering of yttrium doped ceria investigated by sinter-forging
	Grigoryev	Evgeny	eugengrig@mail.ru	ISMAN	Russia	1P	Advantages of the method of high-voltage consolidation of powder materials
NP-1	Hennicke	Juergen	j.hennicke@fct-systeme.de	FCT Systeme GmbH	Germany	1P	Hybrid Sintering – The Beneficial Combination of Sintering Principles
NP-2	Serrazina	Ricardo	serrazina@ua.pt	University of Aveiro	Portugal	1P	Exploitation of industrial application of FLASH to sinter ceramics
NP-3	Guillon	Olivier				1P	"Fields Matter" Intiative in Germany
NP-4	Vaidhyanathan	Bala	b.vaidhyanathan@lboro.ac.	Loughborough University	UK	1P	Field Assisted Processing of 3D printed Ceramics
	Biesuz	Mattia	mattia.biesuz@outlook.com	Queen Mary University of London; Southwest Jiaotong University	UK/China	2P	Electrochemical, Optical and Thermal Effects during Flash Sintering of 8YSZ
	Murray	Shannon	semurra2@illinois.edu	University of Illinois at Urbana Champaign	USA	2P	Study of the phase transformation induced by flash sintering in Mn_2O_3 and the investigation of the role of defects in flash sintering using in-situ Raman spectroscopy

Monday (PM):
2:30 PM to 6:30 PM
(Please see Front Page for the Schedule)

2P: Characterization (5 oral)
3P: Theory (1 oral)

	Kok	David	dkok@uci.edu	University of California, Irvine	USA	2P	Increase in Hardness for Flash Sintered Ceramics

	Ghose	Sanjit	sghose@bnl.gov	NSLS II, Brookhaven National Laboratory	USA	2P	In-Situ X-ray Characterization of Phase Evolution during Solid-State Reactions of Multicomponent Systems
	Kaplan	Wayne D.	kaplan@technion.ac.il	Technion - Israel Institute of Technology	Israel	2P	Solute-Drag vs Solute-Acceleration During Microstructural Evolution of Alumina
	Jayan	B. Reeja	breeja@cmu.edu	Carnegie Mellon University	USA	2P	Anisotropic lattice expansion in Titania under microwave radiation: Evidence for field-driven, non-thermal effects
	Vilarinho	Paula M.	paula.vilarinho@ua.pt	University of Aveiro	Portugal	2P	Dielectric behaviour of FLASH sintered KNN
NP-5	Campos	João Vitor	joao2.campos@usp.br	University of São Paulo	Brazil	2P	Influence of 3YSZ sample height at the onset temperature of flash sintering
NP-6	Wagner	Avital	avitalwa@post.bgu.ac.il	Ben-Gurion University of the Negev	Israel	2P	Photoluminescence in SPS-processed transparent Ce:YAG ceramics
NP-7	Fagnard	Jean-Francois	fagnard@montefiore.ulg.ac	Electrical Engineering and Computer, University of Liege	Belgium	2P	In situ measurements of partial discharge patterns on porous YSZ pellets pressed between planar platinum electrodes used for flash sintering
NP-8	Becker	Mattan	mattan14@gmail.com	Technion	Israel	2P	A Novel System for Quenching during Flash Sintering
NP-9	Schwarzbach	Danny	danny.schwarzbach@phys.ur	Georg-August-University Goettingen	Germany	2P	In-situ Electron Microscopy Studies of Electric Field Assisted Sintering of Oxide Ceramics
NP-10	Grigoryev	Evgeny	eugengrig@mail.ru	ISMAN	Russia	2P	Tensile strength of materials obtained by electric pulse consolidation of powders
NP-11	Ratzker	Barak	ratzkerb@post.bgu.ac.il	Ben-Gurion University of the Negev	Israel	2P	Microstructure evolution during high-pressure spark plasma sintering (HPSPS) of transparent alumina
NP-12	Preusker	Jan	jan.preusker@kit.edu	KIT	Germany	2P	Impact of an external electric field on grain growth in oxides: comparison of flash sintered samples to field assisted grain growth.
	Jongmanns	Malte	Malte.Jongmanns@uni-due.c	University of Duisburg-Essen	Germany	3P	Formation of defect-enriched phases far from equilibrium as a flash sintering mechanism

Tuesday (AM):
8:30 AM to 1 PM
(Please see Front Page for the Schedule)

3P: Theory (3 oral)
4P: Ionic and Glass (4 oral)

	Kalia	Rajiv	rkalia@usc.edu	University of Southern California	USA	3P	Deep Learning of CVD Growth and Phase-Transition Pathways in Layered Materials*

	Serrazina	Ricardo	serrazina@ua.pt	University of Aveiro	Portugal	3P	Modeling of Joule heating in KNN FLASH sintering
	Pereira da Silva	João	joao.silva@fz-juelich.de	Forschungszentrum Jülich	Germany	3P	Thermal Runaway, Dynamic Stability and Process Control in Flash Sintering
NP-13	Engelke	Lukas	lukas.engelke@uni-due.de	University of Duisburg-Essen	Germany	3P	Pattern formation during current sintering (Simulation)
	Chaim	Rachman	rchaim@technion.ac.il	Technion-Israel, Materials Science and Engineering	Israel	4P	Kinetics of liquid-assisted densification during flash sintering of ceramic nanoparticles
	Ramírez González	Julia	jramirezgonzalez1@sheffie	The University of Sheffield	UK	4P	Impedance characterization of calcia-stabilised zirconia as a fuction of applied field
	MORITA	Koji	morita.koji@nims.go.jp	National Institute for Materials Science (NIMS)	Japan	4P	High Temperature Tensile Behavior of Zirconia Ceramics under dc Current
	Ren	Ke	renke@mail.nwpu.edu.cn	Northwestern Polytechnique University	China	4P	Densification and grain growth kinetics of 3mol% Y2O3 stabilized zirconia during flash sintering

Tuesday (PM):
2:30 PM to 6:30 PM
(Please see Front Page for the Schedule)

4P: Ionic and Glass (6 oral)

	Cho	Jaehun	cho299@purdue.edu	Purdue University	USA	4P	Deformation mechanisms of flash sintered yttria stabilized zirconia via in-situ micromechanical testing
	Wesner	Anne	anne.wesner@ikts.fraunhof	Fraunhofer IKTS	Germany	4P	Hybrid/FAST sintering on Glass/Alumina
	Yoshida	Hidehiro	YOSHIDA.Hidehiro@nims.go.	National Institute for Materials Science	Japan	4P	Low temperature and high strain rate superplastic flow in structural oxide ceramics induced by flash event
	Liu	Jinling	liujinling@swjtu.edu.cn	Southwest Jiaotong University	China	4P	The Onset of Flash Sintering 8YSZ
	Grimley	Carolyn	cajensen@ncsu.edu	North Carolina State University	USA	4P	Comparison of the Electrical and Structural Properties of Flash Sintered Yttria-stabilized Zirconia
	Yadav	Devinder	devinder@iitp.ac.in	IIT, Patna, India and University of Colorado Boulder	India	4P	Study of flash phenomena on single crystals of cubic 8 mol% yttria stabilized zirconia

Wednesday (AM):
8:30 AM to 1 PM
(Please see Front Page for the Schedule)

4P: Ionic and Glass (1 oral)
5P: Future (6 oral)

	Jain	Himanshu	h.jain@lehigh.edu	Lehigh University	USA	4P	Electric field induced softening of glass: what can it tell about the mechanism of flash sintering?
NP-14	Lavagnini	Isabela R.	isabela.lavagnini@usp.br	University of São Paulo	Brazil	4P	Microstructural evolution of 3YSZ flash sintered with current ramp control
NP-15	Storion	Ana	anagstorion@usp.br	University of Sao Paulo	Brazil	4P	Influence of the conformation method on flash sintering of ZnO ceramics
NP-16	Liu	Dianguang	dianguang@swjtu.edu.cn	Southwest Jiaotong University	China	4P	Dc Electric Field Assitd 3ysz Ceramic Superplastic Deformation
	Perez-Maqueda	Luis A.	maqueda@cica.es	Instituto de Ciencia de Materiales de Sevilla (CSIC-US)	Spain	5P	Reaction flash sintering for producing high quality functional ceramics within seconds
	Garcia	Edwin	redwing@purdue.edu	Purdue University	USA	5P	Charged Grain Boundaries and the Microstructural Evolution of Ionic Ceramics
	Vendrell	Xavier	xavier.vendrell.villafru	Universitat Politècnica de Catalunya, University of Sheffield	Spain	5P	Enhanced ionic conductivity of 8 mol% Yttria Stabilised Zirconia by flash sintering
	Shoemaker	Daniel	dpshoema@illinois.edu	University of Illinois	USA	5P	Local structure and kinetics of defect accumulation in titania flash events
	Riess	ILan	riess@technion.ac.il	Technion, Faculty of Physics	Israel	5P	Mixed ionic electronic conductivity and flash sintering
	Wurster	Stefan	stefan.wurster@oeaw.ac.at	Erich Schmid Institute of Materials Science	Austria	5P	Metastable Nanomaterials and Nanocomposites obtained by High Pressure Torsion Powder Consolidation

Thursday 8:30 AM to 1 PM
(Please see Front Page for the Schedule)

5P: Future (1 oral)
6P: SPS and Microwave (6 oral)

	West	Anthony	a.r.west@sheffield.ac.uk	University of Sheffield	UK	5P	Some observations on the response of oxides to an applied field
NP-17	Cho	Jaehun	cho299@purdue.edu	Purdue University	USA	5P	Field-induced mass transport phenomena in flash sintered high temperature ceramics explored by in situ SEM and TEM
NP-18	Avila	Viviana	viviana.avila@colorado.ed	University of Colorado Boulder	USA	5P	Flash sintering of ceramic films: the influence of surface to volume ratio
NP-19	Jo	Seohyeon	seohyeon.jo@colorado.edu	University of Colorado Boulder	USA	5P	Transition to partial electronic conductivity at the onset of Flash measured by in-situ impedance spectroscopy
NP-20	Kathiria	Rushi K.	rushi.kathiria@colorado.e	University of Colorado Boulder	USA	5P	In-situ measurements of the elastic modulus of Zirconia polycrystals held in a state of flash induced by an electric field

NP-21	Yoon	Bola	bola.yoon@colorado.edu	University of Colorado Boulder	USA	5P	Unusual atom displacements in TiO2 during flash sintering
NP-22	Avila	Viviana	viviana.avila@colorado.ed	University of Colorado Boulder	USA	5P	Powders of four elemental oxides transformed and sintered by reactive flash
NP-23	Raj	Rishi	rishi.raj@colorado.edu	University of Colorado Boulder	USA	5P	Lattice Softening
NP-24		Yoed	tsur@technion.ac.il	Technion, Israel Institute of Technology	Israel	5P	A short review of FS mechanisms
	Rybakov	Kirill I.	rybakov@ipfran.ru	Institute of Applied Physics, Russian Academy of Sciences	Russia	6P	Ultra-rapid microwave sintering of ceramics and powder metals
	Suzuki	Tohru S.	suzuki.tohru@nims.go.jp	National Institute for Materials Science	Japan	6P	Effective colloidal processing for densification before SPS
	Nakamura	Nathan J.	nnakamur@andrew.cmu.edu	Carnegie Mellon University	USA	6P	The Role of Defects in Microwave-Assisted Synthesis of Cubic ZrO2
	Mishra	Tarini Prasad	t.mishra@fz-juelich.de	Forschungszentrum Jülich GmbH	Germany	6P	Electric field assisted densification of 10 mol. % Gadolinium Doped Ceria (GDC 10)
	Elissalde*	Catherine	catherine.elissalde@icmcb	ICMCB/CNRS	France	6P	Some strategies to (co)-sinter refractory functional oxides at low temperature by Spark Plasma Sintering
	Josse*	Michaël	michael.josse@icmcb.cnrs.	Université de Bordeaux, ICMCB	France	6P	Cool-SPS: pulling down the temperature, pushing up the reactivity

Thursday 2:30 PM to 6:30 PM
(Please see Front Page for the Schedule)

6P: SPS and Microwave (1 oral)
7P: Metallic and Carbon Based (5 oral)

	Kim	Byung-Nam	kim.byung-nam@nims.go.jp	National Institute for Materials Science	Japan	6P	Grain growth behavior during spark plasma sintering of ceramics
NP-25	Raethel	Jan	jan.raethel@ikts.fraunhof	Fraunhofer IKTS, Dresden, Germany	Germany	6P	Reproducibility of Fast/sps Experiments
NP-26	Grigoryev	Evgeny	eugengrig@mail.ru	ISMAN	Russia	6P	β-SiAlON-based ceramic composites by combustion synthesis and spark plasma sintering
NP-27	El Khoury*	Liza	elkhouryliza@gmail.com	ICMCB, UMR 5026, F-33600 Pessac, Bordeaux University	France	6P	Evidence for microstructure-dependent hysteresis in SCO molecular ceramics prepared by Cool-SPS
NP-28	Moskovskikh	Dmitry	mos@misis.ru	National University of Science and Technology, MISiS	Russia	6P	Spark plasma sintering of Hf0.2Ta0.2Ti0.2Nb0.2Zr0.2C and Hf0.2Ta0.2Ti0.2Nb0.2Mo0.2C high-entropy ultra-high temperature ceramics

	Leich	Lennart	lennart.leich@rub.de	Ruhr-Universität Bochum, Lehrstuhl Werkstofftechnik	Germany	7P	Densification of NdFeB Magnets by Electro-Discharge Sintering - Microstructure, Mechanical and Magnetic Properties
	Wang	Yiguang	wangyiguang@bit.edu.cn	Beijing Institute of Technology	China	7P	Electrical-field assisted flash joining of ceramic oxide-ceramic oxide and ceramic oxide-metal
	Rosenberger	Andrew	andrew.rosenberger3.ctr@n	Oak Ridge Associated Universities, Army Research Laboratory	USA	7P	Flash Sintering of Armor Materials: Challenges and Opportunities
	Mégret	Alexandre	alexandre.megret@umons.ac	University of Mons	Belgium	7P	Effect of the addition of doped-cobalt on the properties of recycled tungsten carbide powder sintered by SPS
	de Knoop	Ludvig	ludvig.deknoop@chalmers.s	Chalmers University of Technology	Sweden	7P	Electric field-induced surface roughening of gold observed in situ at atomic resolution using transmission electron microscopy
NP-29	Vilémová	Monika	vilemova@ipp.cas.cz	Institute of Plasma Physics AS CR, v.v.i.	Czech Rep	7P	W-Cr solid solution: Comparison of alloying in SPS and by ball milling
NP-30	Biesuz	Mattia	mattia.biesuz@outlook.com	Queen Mary University of London	UK	7P	Flash joining of graphite with polymer derived ceramic interlayer
NP-31	Brede	Thomas	tbrede@gwdg.de	Institute of Materials Physics	Germany	7P	The effect of high current densities on iron-carbon alloy thin films
NP-32	Yoon	Bola	bola.yoon@colorado.edu	University of Colorado Boulder	USA	8P	Insights into reactive flash sintering of MgO-Al2O3-(8YSZ) by in-situ synchrotron X-ray diffraction
NP-33	O'Toole	Rebecca	rebecca.otoole@colorado.e	University of Colorado Boulder	USA	8P	Flash sintering of zirconia/alumina powders
NP-34	Marder	Rachel	rachelma@tx.technion.ac.i	Technion- Israel Institute of Technology	Israel	8P	The Influence of Carbon on the Microstructure of Sintered Alumina
NP-35	Molinari*	Flora	flora.molinari@icmcb.cnrs	ICMCB-CNRS, Université de Bordeaux	France	8P	Densification of classic and fragile ferroelectrics by Cool-SPS

Friday 8:30 AM to 12:30 PM
(Please see Front Page for the Schedule)

7P: Metallic and Carbon Based (3 oral)
8P: Complex Oxides (3 oral)

	Maccari	Fernando	maccari@fm.tu-darmstadt.c	Technical University of Darmstadt	Germany	7P	Effect of electric current annealing in phase transition of Mn-Al alloy
	Körkemeyer	Franz	koerkemeyer@iw.uni-hannov	Institut für Werkstoffkunde, Leibniz-Universität Hannover	Germany	7P	Anomalous twinning in AZ 31 magnesium alloy during electrically assisted forming
	Fudger	Sean J.	sean.j.fudger.civ@mail.mi	US Army Research Laboratory	USA	7P	Evidence of localized, incipient melting during field-assisted sintering of oxide dispersion strengthened, nanocrystalline metals

HU	YU	huyuhj@gmail.com	Ionotec Ltd	UK	8P	Flash sintering of beta”-alumina solid electrolytes for sodium battery applications
Mascotto	Simone	simone.mascotto@chemie.ur	University of Hamburg	Germany	8P	Triggering the catalytic activity of SrTiO3-based ceramics by flash sintering
Senos	ana	anamor@ua.pt	University of aveiro	Portugal	8P	Atmosphere assisted FLASH sintering of KNN