

Emerging Methodologies for Paramagnetic NMR and Dynamic Nuclear Polarization in Biological and Inorganic Materials Location: Telluride Intermediate School, 725 West Colorado Ave, Telluride, CO 81435 Breakfast available every day 7:30 - 9:00 am at the workshop site		
Sunday- Aug 4, 2019		
17:00 - 18:30	Conference reception	Phoenix Bean; 221 W Colorado Ave
Monday- Aug 5, 2019		
7:00 - 9:30	Breakfast	
12:30 - 12:50	Welcome (Marina Bennati, Tatyana Polenova) Session 1 (Ivan Sergeyev)	
12:50 - 13:10	Bob Griffin	Wither the Spin Diffusion Barrier: Trityl in DNP Juice
13:30 - 14:10	Yoh Matsuki	Methods for Confining and Quantifying Hyperpolarization: 460 GHz-700 MHz DNP NMR using Closed-Cycle Helium MAS and Dual Gyrotron Systems
14:10 - 14:50	Melanie Rosay	Perspectives on Low Power DNP
14:50 - 15:10 Coffee break		
Session 2 (Joanna Long)		
15:10 - 15:50	Gunnar Jeschke	Microwave Games with Tunnel-Split States and with Nuclear Spins Decoupled from Electron Spins
15:50 - 16:30	Lyndon Emsley	Radically Improved MAS DNP
16:30 - 17:10	Zhehong Gan	How to treat and what we can learn from of a large rotating interaction under irradiation
Tuesday - Aug 6, 2019		
8:30 - 13:00 Free time		
Session 3 (Songi Han)		
13:00 - 13:40	Angela Gronenborn	¹⁹ F MAS NMR With and Without DNP: Why Bother?
13:40 - 14:20	Ivan Sergeyev	DNP Curiosities: Let's Talk Depolarization; The Case of The Vanishing Radicals; Direct Polarization Oddities
14:20 - 15:00	Tatyana Polenova	Resolution in Low- and Not-So-Low- Temperature MAS NMR With and Without DNP: The Beauty is in The Eyes of the Beholder
15:00 - 15:20 Coffee break		
Session 4 (Zhehong Gan)		
15:20 - 16:00	Björn Corzilius	Direct and Site-Specific Dynamic Nuclear Polarization of Insensitive Nuclei
16:00 - 16:40	Hartmut Oschkinat	Unexpected Adventures with DNP MAS NMR - Phytochromes Want to be Polarized
16:40 - 17:20	Yoshitaka Ishii	Innovations by High-Speed MAS Solid-State NMR (SSNMR) and SSNMR Studies of Misfolded Amyloid-Beta
17:20 - 18:00	Joanna Long	DNP of Membrane Proteins using Physiologic Conditions
19:00	Conference dinner, The Village Table restaurant	http://www.thevillagetablerestaurant.com/ ; 618 Mountain Village Blvd., Sunshine Plaza, Mountain Village; Tel. 970-728-1117

Wednesday - Aug 7, 2019		
8:30 - 13:00 Free time		
Session 5 (Gunnar Jeschke)		
13:00 - 13:40	Marina Bennatti	¹³ C Overhauser DNP: Developments From Low to High Fields
13:40 - 14:20	Thomas Prisner	New Aspects of Liquid State DNP at 9.4 T
14:20 - 15:00	Songí Han	Role of Spin Dynamics and Couplings in Dynamic Nuclear Polarization
15:00 - 15:20 Coffee break		
Session 6 (Björn Corzilius)		
15:20 - 16:00	Moreno Lelli	Hybrid Biradicals for an Efficient DNP at High Field and Fast MAS
16:00 - 16:40	Michal Leskes	Endogenous DNP from Paramagnetic Metal Ion Dopants in Inorganic Materials
16:40 - 17:20	Gaël de Paëpe	Sensitive and Selective DNP-Enhanced ssNMR
17:30 Conference picnic		
Thursday - Aug 8, 2019		
8:30 - 13:40 Free time		
Session 7 (Melanie Rosay)		
13:40 - 14:20	Daniella Goldfarb	In Cell Distance Measurements by EPR - Any Relevance to In-Cell DNP
14:20 - 15:00	Kent Thurber	Applications of DNP: High-Resolution Imaging and Protein Folding
15:00 - 15:40	Kendra Frederick	DNP NMR for <i>In Vivo</i> Structural Biology
15:40 - 16:00 Coffee break		
16:00 - 18:00	Brainstorming session	
18:30 -	Dinner in self-organized groups, discussions	
Friday - Aug 9, 2019		
7:00 - 9:30 am Breakfast, informal discussions		