

Technical Session	Technical Session Organizer
4.5 Laser Produced Plasmas	Mingsheng Wei (weims@fusion.gat.com)

Session MO 1.2: Laser Produced Plasmas

Monday, May 22, 2017 from 10:00-11:30, Wildwood 10

Session Chair: Guy Rosenzweig, MIT - PSFC

10:00 MO 1.2-1 CONFIGURATION OF WAVES IN TWO-PLASMON DECAY INSTABILITY UNDER WEAK LANDAU DAMPING OF PLASMA WAVES

G. S. Cho¹, J. Lee¹, Y. Y. Tsui²

¹*Department of Nanoscience and Engineering, Inje University, Gimhae, Gyeongnam, South Korea*

²*Department of Electrical and Computer Engineering, University of Alberta, Edmonton, Alberta, Canada*

10:15 MO 1.2-2 HOT ELECTRON GENERATION AND SPATIAL ENERGY DEPOSITION BY INFRARED LASER AT SHOCK IGNITION RELEVANT INTENSITY

S. Zhang¹, C. M. Krauland², J. Peebles¹, J. Li¹, F. N. Beg¹, H. Reynolds², M. L. Hoppe Jr.², W. Theobald³, D. Haberberger³, E. Borwick³, C. Ren³, C. Stoeckl³, W. Seka³, R. Betti³, E. M. Campbell³, M. S. Wei²

¹*Department of Mechanical and Aerospace Engineering, University of California, San Diego, La Jolla, CA, United States*

²*Inertial Fusion Technology, General Atomic, San Diego, CA, United States*

³*Laboratory for Laser Energetics, University of Rochester, Rochester, NY, United States*

10:30 MO 1.2-3 A STUDY OF FLAME DYNAMICS INDUCED BY A DUAL-PULSE LASER IGNITION TECHNIQUE

C. Dumitrache, C. Limbach, A. Yalin

Mechanical Engineering, Colorado State University, Fort Collins, CO, United States

10:45 MO 1.2-4 SHOCK WAVE GENERATION BY ULTRAVIOLET NANOSECOND LASER PULSES AT REDUCED PRESSURE

C. M. Limbach¹, C. Dumitrache², A. P. Yalin²

¹*Aerospace Engineering, Texas A&M University, College Station, TX, United States*

²*Mechanical Engineering, Colorado State University, Fort Collins, CO, United States*

11:00 MO 1.2-5 EXPERIMENTAL STUDY OF LASER PLASMA FORMATION IN AN OPTICALLY ACCESSIBLE SWITCH

C. E. Rose, C. Dumitrache, A. P. Yalin

Mechanical Engineering, Colorado State University, Fort Collins, CO., USA

11:15 MO 1.2-6 LASER-PLASMA MODELING USING PERSEUS EXTENDED-MHD SIMULATION CODE FOR HED PLASMAS

N. D. Hamlin, C. E. Seyler

Cornell University, Ithaca, NY, United States