

Applied Physics

Session **J**

Room: 237 Baxter

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| 10:20 - 10:40 AM | Arianne X. Collopy <i>Donald S. Clark SURF Fellow</i> | Nanostructured Electrodes for Improved Charge Carrier Collection in Conjugated Polymer Solar Cells | Harry A. Atwater <i>Howard Hughes Professor and Professor of Applied Physics and Materials Science</i> |
| 10:40 - 11:00 AM | Yousif A. Kelaita <i>Mary P. and Dean C. Daily SURF Fellow</i> | Fabrication and Characterization of Stretchable Metamaterials on Elastomeric Substrates | Harry A. Atwater <i>Howard Hughes Professor and Professor of Applied Physics and Materials Science</i> |
| 11:00 - 11:20 AM | Rishi D. Khanna | Growth and Characterization of Zinc Oxide for Photovoltaic Applications | Harry A. Atwater <i>Howard Hughes Professor and Professor of Applied Physics and Materials Science</i> |
| 11:20 - 11:40 AM | Alexander M. Lapidis <i>Richter Scholar</i> | Electronic Measurements of Vapor-Liquid-Solid Grown, Ni-Catalyzed, Si Wires | Harry A. Atwater <i>Howard Hughes Professor and Professor of Applied Physics and Materials Science</i> |
| 11:40 AM - 1:00 PM | LUNCH | | |
| 1:00 - 1:20 PM | Thomas O. Gwinn <i>Robert K. and Alice L. Roney SURF Fellow</i> | Infrared Lensing With Plasmonic Microslits | Roger T. Howe <i>Professor of Electrical Engineering, Stanford University</i> Axel Scherer <i>Bernard Neches Professor of Electrical Engineering, Applied Physics, and Physics</i> |
| 1:20 - 1:40 PM | Amit Alon <i>Ms. Jane Chen SURF Fellow</i> | Coupled Cavity Waveguides and Optical Bistability | Axel Scherer <i>Bernard Neches Professor of Electrical Engineering, Applied Physics, and Physics</i> Uday K. Khankhoje <i>Graduate Student in Electrical Engineering</i> |
| 1:40 - 2:00 PM | Samson Chen | Microscale Platinum Resistors for Heating and Temperature Sensing | Axel Scherer <i>Bernard Neches Professor of Electrical Engineering, Applied Physics, and Physics</i> Aditya Rajagopal <i>Graduate Student in Electrical Engineering</i> |

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| 2:00 - 2:20 PM | Anna E. Craig <i>Joanna Wall Muir</i> <i>SURF Fellow</i> | Bio-Inspired Carbon Nanotube Foams | Chiara Daraio <i>Assistant Professor of Aeronautics and Applied Physics</i> Abha Misra <i>Postdoctoral Scholar in Aeronautics</i> |
| 2:20 - 2:30 PM | BREAK | | |
| 2:30 - 2:50 PM | Franz A. Sauer <i>Lester Lees Aeronautics</i> <i>SURF Fellow</i> | Designing a Ballistic Pendulum for the Caltech Spheromak Formation/Astrophysical Jet Experiment to Measure Plasma Jet Momentum | Paul M. Bellan <i>Professor of Applied Physics</i> Auna L. Moser <i>Graduate Student in Applied Physics</i> |
| 2:50 - 3:10 PM | Michael W. Kaye <i>Frederick W. Drury, Jr.</i> <i>SURF Fellow</i> | Modeling Optomechanical Crystal Geometries | Oskar J. Painter <i>Assistant Professor of Applied Physics</i> |
| 3:10 - 3:30 PM | Michael A. Borisov <i>Samuel P. and Frances</i> <i>Krown SURF Fellow</i> | Developing a Microfluidic System for On-Chip Reverse Transcription | Michael L. Roukes <i>Professor of Physics, Applied Physics, and Bioengineering</i> |