



**(Incorporating CNOM — the Center for Novel Optoelectronic Materials)
SPRC Annual Meeting - Agenda - Stanford University
Monday through Wednesday, September 15-17, 2003
DRAFT AGENDA**

- MONDAY** **September 15, 2003 – FAIRCHILD AUDITORIUM**
- 8:00 to 8:30 Coffee and pastries – posters on display
- Introductory Remarks**
- 8:30 to 9:00 Co-Directors: Robert L. Byer, Martin M. Fejer, and David A.B. Miller
- 9:00 to 9:45 **Keynote Address**
Edward W. (Ned) Barnholt (Agilent Technologies) "Applications of Photonics and Optoelectronics - An Industry Perspective"
- 9:45 to 10:15 **BREAK (Posters on display)**
Fundamental Science Organizers, Jelena Vuckovic and Stephen E. Harris
- 10:15 to 11:00 **Plenary Address**
Eli Yablonovitch (UCLA) "The World of the Very Small; Nano-lithography, Nano-electronics and Nano-photonics"
- 11:00 to 11:20 Danielle Braje (Stanford) "Nonlinear optics at low-light levels" (Danielle Braje, Vlatko Balic, G. Y. Yin, and S. E. Harris.)
- 11:20 to 11:40 Charles Santori (Stanford) "Semiconductor quantum dots: light sources for quantum information"
- 11:40 to 1:00 **LUNCH (Posters on display)**
Biophotonics Organizer, Daniel Palanker
- 1:00 to 1:45 **Plenary Address**
James G. Fujimoto (MIT) "Optical Coherence Tomography for ultrahigh resolution in vivo imaging"
- 1:45 to 2:15 Lev T. Perelman (Harvard Medical School)
- 2:15 to 2:30 Georg Schuele (Stanford)
- 2:30 to 3:00 Mark Schnitzer (Stanford)
- 3:00 to 3:30 **BREAK (Posters on display)**
- 3:30 to 5:30 **Biophotonics Industry Panel Discussion,**
Moderator, Dennis Matthews, UC Davis, Center for Biophotonics, Science & Technology
Panelists to be announced
- 5:30 to 7:00 **Reception for SPRC faculty, students, and Annual Meeting Registrants at the Stanford Faculty Club**
- 7:00 to 10 PM **Dinner at the Faculty Club**
After-dinner speaker: Dr. Celine d'Orgeville (Gemini Observatory)



STANFORD **PHOTONICS** RESEARCH CENTER

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- TUESDAY** **September 16, 2003 – FAIRCHILD AUDITORIUM**
- 8:00 to 8:30 **Coffee and Pastry (Posters on display)**
- 8:30 to 8:45 **Welcome to Day 2 remarks (SPRC Co-Director David Miller)**
Nanophotonics Organizer, Lambertus Hesselink
- 8:45 to 9:15 Lukas Novotny (University of Rochester) “Optics on the Nanometer Scale”
- 9:15 to 9:30 Joseph Matteo (Stanford) “Near Field Optical Trapping Measurements Via Fluorescence Correlation Spectroscopy.”
- 9:30 to 10:00 Steven G. Johnson (MIT)
- 10:00 to 10:30 **BREAK (Posters on display)**
Telecom Organizer, Joseph M. Kahn
- 10:30 to 11:00 Joseph M. Kahn (Stanford)
- 11:00 to 11:15 Georgios Kalogerakis (Stanford) “Recent Advances in Optical Parametric Amplification”
- 11:15 to 11:45 Invited Speaker
- 11:45 to 1:00 **LUNCH (Posters on display)**
Optical Interconnects Organizer, Krishna Saraswat
- 1:00 to 1:30 Joe C. Campbell (University of Texas at Austin) “Si-based Optical Receivers”
- 1:30 to 1:45 Aparna Bhatnagar (Stanford)
- 1:45 to 2:15 Brian Lemoff (Agilent Technologies) “Fiber-to-the-Processor: REALLY high-density interconnects for computers”
- 2:15 to 2:45 **BREAK (Posters on display)**
Optical MEMS Organizer, Olav Solgaard
- 2:45 to 3:15 Invited Speaker, TBA
- 3:15 to 3:30 Ruslan Belikov (Stanford) “Spectral filtering based on deformable MEMS gratings”
- 3:30 to 4:00 Thomas D. Wang (Stanford)
- 4:00 to 4:30 **Poster Introductions (Robert L. Byer, Organizer)**
- 4:30 to 6:00 **Appetizers in Fairchild Lobby (Posters on display)**
Dinner – on your own!



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WEDNESDAY September 17, 2003 – FAIRCHILD AUDITORIUM

- 8:00 to 8:45 **Coffee and Pastry** – Posters on display
Ultrafast and Nonlinear Optics - Organizer, Martin M. Fejer
- 8:45 to 9:15 Franz X. Kärtner, (MIT) “Octave Spanning Lasers and Single-Cycle Pulse Synthesis”
- 9:15 to 9:30 Student Speaker
- 9:30 to 10:00 Craig Denman (Kirtland Air Force Base) “20 Watt CW 589-nm Sodium Beacon Excitation Source for Adaptive Optical Telescope Applications”
- 10:00 to 10:30 **BREAK (Posters on display)**
Fiber Lasers - Organizers, Robert L. Byer and Michel Digonnet
- 10:30 to 11:00 Tom Kane (Lightwave Electronics) “3 Watt blue and green sources based on Nd:silica fiber amplifiers”
- 11:00 to 11:15 Student Speaker
- 11:15 to 11:45 Michael Wickham (Northrop Grumman Space Technologies) “Coherently Coupled High Power Fiber Arrays”
- 11:45 to 12:15 Luis Zenteno (Corning) “Single-polarization fiber lasers”
- 12:15 to 1:30 **LUNCH (Posters on display)**
Solid State Lasers - Organizer, Robert L. Byer
- 1:30 to 2:00 Iain McKinnie (Coherent Technologies, Inc) “High-power, high-brightness solid-state waveguide lasers”
- 2:00 to 2:15 Student Speaker
- 2:15 to 2:45 Adolf Giesen (Universität Stuttgart, Institut für Strahlwerkzeuge) “Thin Disk Lasers – Recent Results and Future Prospects”
- 2:45 to 3:15 **Post Deadline Talks**
- 3:15 to 3:45 **BREAK (Posters on display)**
Optical Materials Organizer, Martin M. Fejer
- 3:45 to 4:15 Ken-ichi Ueda (Institute for Laser Science, University of Electro- Communications)
- 4:15 to 4:30 Student Speaker
- 4:30 to 5:00 Venkat Gopalan (Penn State University) “Local structure and Shaping of Ferroelectric domain walls for electro-optic and tunable photonic crystal devices”
- 5:00 to 7:00 **Reception/BBQ/Farewell** in Fairchild Courtyard

