



Intelligent Infrastructures: Workshop on Failure and Diagnosis of Underground Power Distribution Cables

290 Hearst Memorial Mining Building
The Dado and Maria Banatao Conference Room
UC Berkeley campus
Monday, February 25, 2008

Time	Title and Participants
8:15 AM	Coffee and registration (please pre-register)
8:30 AM	Welcome and overview Paul Wright, CITRIS Acting Director, A. Martin Berlin Chair in Mechanical Engineering, UC Berkeley Linda Kelly, PIER Energy Systems Integration, Department of Energy
9:00 AM	<i>Keynote talk: The Road to Reliability Starts with Selection</i> Nigel Hampton, Chief Materials Scientist, National Electric Energy Testing Research and Applications Center
9:40 AM	<i>Keynote talk: Cable Failure, Diagnostics and Rejuvenation</i> Steven Boggs, Research Professor in Materials Science, University of Connecticut
10:20 AM	Break
10:35 AM	Prospects for Novel Detection of Water Trees or Other Cable Faults Richard White, Professor of Electrical Engineering and Computer Sciences, UC Berkeley
11:00 AM	Modeling Electromechanical Phenomena Contributing to Cable Deterioration James Evans, P. Malozemoff Endowed Chair in Mineral Engineering, UC Berkeley
11:25 AM	Need for an On-line Cable Diagnostic to Improve SDG&E's Cable Asset Management Program Thomas Bialek, Principal Engineer, San Diego Gas & Electric Company (SDG&E)
11:50 AM	Lunch



Center for Information Technology
Research in the Interest of Society

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- 12:30 PM** *Keynote talk: Wet and Dry Electrical Aging of XLPE*
Jean-Pierre Crine, Associate Professor, Ecole Polytechnique and the Ecole de Technologie Supérieure
- 1:10 PM** **Smart Grid Title 13 Implementation at DOE**
Paul Wang, Department of Energy
- 1:35 PM** **Experiments Directed at the Mechanism of Water Treeing**
Thomas Devine, Professor of Materials Science and Engineering, UC Berkeley
- 2:00 PM** **Selection of Diagnostic Techniques for Underground Distribution Systems at PG&E**
Walter Zenger, Pacific Gas and Electric Company (PG&E)
- 2:25 PM** **Break**
- 2:40 PM** **Cable Failure and Diagnostics at SCE**
Lamar Cunningham, Southern California Edison (SCE)
- 3:05 PM** **The Importance of Quality Compounds for Utility Cable Reliability (by L.H. Gross, A. Mendelsohn, S. Ramachandran, and B. Richardson)**
Larry Gross, Dow
- 3:30 PM** **Panel discussion**
- 4:15 PM** **Reception and student posters**
- 5:00 PM** **Meeting ends**