SUPERCONDUCTIVITY FOR ELECTRIC SYSTEMS PROGRAM **2000 ANNUAL PEER REVIEW**

JULY 17-19, 2000 • WASHINGTON, DC

Monday, July 17,	2000		Day One		
8:30 - 9:30 am	Registration/Continental Breakfast				
9:30 - 9:40 am	Welcome - Program Overview and Purpose of Peer Review James Daley, Senior Program Manager, DOE Superconductivity Program				
9:40 - 9:45 am	Opening Remarks Robert Dixon, Acting Deputy Assistant Secretary, Office of Power Technologies				
9:45 - 10:30 am	National Laboratory Overview (15 minutes each) <i>Not to be rated</i> Argonne Oak Ridge Los Alamos				
10:30 - 11:00 am	Break				
11:00 am - 12:00 pm	SPI Project Updates (10 minutes each) Not to be rated Flywheel Electricity System (Boeing) Michael Strasik Magnetic Separators (Dupont) Christopher Rey Power Cables (Pirelli) Stephen Norman Motors (Reliance) David Driscoll Power Cables (Southwire) Uday Sinha Transformers (Waukesha) Sam Mehta				
12:00 - 1:30 pm	Luncheon				
1:30 pm	Commence Annual Peer Review (Note: Numbers in parens indicate presentation + question time)				
WIRE SESSION		SYSTEMS SESSION			
1:30 - 3:00 pm	Argonne - Development of Coated Conductors Practical & Fundamental Issues (75+15) Balachandran, Gray	1:30 - 2:45 pm	Oak Ridge - HTS Power Cable: Southwire Superconductivity Partnership Initiative Project (60+15) Stovall, Gouge, Lindsay		
3:00 - 3:30 pm	Break	3:00 - 3:30 pm	Break		
3:30 - 5:00 pm	Los Alamos - Coated Conductor Research and New Initiatives (75+15) Maley, Mueller, Holesinger, Kung, Foltyn	3:30 - 4:30 pm	Brookhaven - Practical Conductor Development for Electric Power Systems Utilizing High T _c Oxides: AC Loss Measurements (45+15) Ashworth, Suenaga		
5:20 pm	Adjourn for Day	4:30 - 5:20 pm	Argonne - Flywheel Energy Systems with HTS Bearings (40+10) Hull, Day		
5:45 pm	Reception - Poster Session	-	rian, Day		

Group Activity (pre-paid Dinner Cruise - Meet in Hotel Lobby by 6:45 pm)

7:00 pm

Dinner (on your own)

Tuesday, July 18,	2000		Day Two	
8:00 - 9:00 am	Continental Breakfast			
9:00 am	Reconvene Annual Peer Review (Note: Numbers in parens indicate presentation + question time)			
WIRE SESSION		SYSTEMS SESSION		
9:00 - 10:30 am	Los Alamos - Coated Conductor Tape Development (75+15) Peterson, Arendt, Foltyn	9:00 - 10:15 am	Los Alamos - Active Magnetic Regenerative Refrigerator CRADA (60+15) Blumenfeld, Zimm	
10:30-11:00am	Break	10:15-10:45 am	Break	
11:00 - 11:40 am	Brookhaven - Practical Conductor Development For Electric Power Systems Utilizing High T _c Oxides: Microstructures & Growth Kinetics (30+10) Suenaga, Welch	10:45 - 11:45 am	Oak Ridge - HTS Power Transformers: Waukesha Superconductivity Partnership Initiative (45+15) Schwenterly	
11:40 am - 12:10 pm	NIST (CO) - Electromechanical Studies for Superconductor Development (20+10) Ekin	11:45 am- 12:15 pm	Sandia - Superconductivity Partnership Initiative (20+10) Dykhuizen	
		12:15 -1:45 pm	Luncheon	
12:15 - 1:45 pm 1:45 - 3:15 pm	Luncheon Oak Ridge - Fundamental Issues for Coated Conductors (75+15) Christen, Goyal, Paranthaman, Rupich	1:45 - 3:00 pm	Los Alamos - AC-Loss Calorimeter System for HTS Power Transmission Cables (60+15) <i>Maley, Willis, Norman</i>	
0.45 0.45	·	3:00 - 3:30 pm	Break	
3:15 - 3:45 pm 3:45 - 5:00 pm	Oak Ridge - Issues for Continuous Processing Of Coated Conductors (60+15) List, Lee, O'Neill	3:30 - 4:30 pm	Los Alamos - The Application of High Temperature Superconductors to Underground Communications (45+15) Reagor	
5:00 pm	Adjourn for Day	4:30 pm	Systems Session Adjourned	

5:30 pm Poster Session

6:15 pm Dinner (on your own)

Wednesday, July 19, 2000

8:00 - 8:45 am	Continental Breakfast				
8:45 am	Reconvene Continuation Annual Peer Review (Note: Numbers in parens indicate presentation + question time)				
WIRE SESSION	UNIVERSITY SESSION				
8:45 - 9:45 am	NREL - Processing of Thallium-Oxide Films By Non-Vacuum Techniques (45+15) Blaugher, Bhattacharya	8:45 - 9:15 am	MIT - Protection for High Temperature Superconducting Windings (20+10) Yuki Iwasa		
9:45 - 10:10 am	Break	9:15 - 9:45 am	Univ Houston - Application of Photo-Assisted MOCVD to Thick Film YBCO Deposition for		
10:10 - 11:00 am	Sandia - Solution Deposition of YBCO Coated Conductors (40+10) Clem, Siegal		Coated Conductors (20+10) Ignatiev		
	, 	9:45 - 10:15 am	Break		
11:00 - 11:30 am	NIST (MD) - Phase Equilibria Relations of				
	High TC Superconductors (20+10) Wong-Ng, Cook	10:15 - 11:15 am	Stanford - Research on the In-Situ Process for Coated Conductors (45+15) Hammond		
11:30 am	Wire Session Adjourne				
11:30 am - 12:30 pm	Lunch (on your own)	11:30 am - 12:30 pm	Lunch (on your own)		
		12:30 - 2:00 pm	Univ Wisconsin-Madison - Fundamental		

Day Three

Studies of Key Issues Underlying High Temperature Super-Conductor Technology and Refrigeration Technology as Applied to

Babcock, Hellstrom, Larbalestier, Pfotenhauer

Electric System Uses (75+15)

University Session Adjourned

2:00 pm

2:00 - 4:30 pm Workshop -A Focus on National Laboratory Facilities to Meet Industry Needs: "Sharpening the Saw - Keeping the National Laboratories on the Cutting Edge"