

**LOG OF MEETING  
DIRECTORATE FOR ENGINEERING SCIENCES**

**SUBJECT:** IEEE P1725 Working Group - Standard for Rechargeable Batteries for Cellular Telephones

**DATE OF MEETING:** May 10-12, 2005

**PLACE OF MEETING:** Motorola, Schaumburg, IL

**LOG ENTRY SOURCE:** Doug Lee, ESEE *DL*

**DATE OF LOG ENTRY:** May 18, 2005

**COMMISSION ATTENDEES:** Doug Lee, ESEE

**NON-COMMISSION ATTENDEES:**

IEEE P1725 Working Group members and guests – see attached attendee roster

**SUMMARY OF MEETING:**

Mr. Lee attended the fifth IEEE P1725 working group meeting to discuss proposed requirements for a new standard for rechargeable batteries for cellular telephones. The P1725 Working Group is using the recently published IEEE Std 1625™ - 2004, *IEEE Standard for Rechargeable Batteries for Portable Computing* as a template to draft the *IEEE Standard for Rechargeable Batteries for Cellular Telephones*.

Most of the three day meeting involved discussions of comments received on draft 2 of the standard. Day 2 was used for subgroup discussions and working on requirements assigned to each group. The four subgroups are: Accessories, Host and Pack, Cell, and System. Mr. Lee attended and participated in the system subgroup.

Some of the highlights of the working group meetings are:

- Processes that will improve reliability/safety have been identified and are being proposed for inclusion in the standard especially at the cell level.
- Safety standards (UL, IEC, UN) for components (chargers, batteries, etc.) are being proposed as requirements of this standard and not just listed in the appendices.
- Security devices and measures are being proposed to reduce or eliminate incompatible and/or counterfeit components (chargers and battery packs) being used with manufacturers' phones.
- The working group is proposing more "shall" requirements as opposed to "should" recommendations that are in the portable computing battery standard.
- The new requirements for product certification were discussed. Some entities favor self certification while others favor third party certification. The buyer may determine who certifies the product.

The attendee roster and unofficial minutes of the meeting are appended to the meeting log.

*DL* 5/18/05  
PRODUCTS DIVISION  
MAY 18 2005  
MAY 18 2005



**IEEE P1725 Working Group Meeting**  
**10-May-05 to 12-May-05**  
**Motorola, Schaumburg, IL**  
**Agenda**

**Day 1**                    **8:30 am to 5:00 pm**

**1. Call to Order**

- The meeting was called to order at 8:30 am.
- Gloria Vanderheiden, Vice President Director of Strategic Services and Risk Management for Motorola Mobile Devices, welcomed the group.
- The chair did a roll call of entities and asked for a declaration of DRs and DRAs. The group was informed that the sign-in sheet will serve as the official record of attendance, and all were cautioned to sign-in before the end of the week.

*NOTE: Please review the roster for proper legal entity names, to be listed in the front matter of the final published standard. Correction should be sent to Noelle Humenick and will show in the approved version of the minutes, after the next meeting.*

**2. Approval of Agenda**

- A motion was passed to approve the agenda.

**3. Call for Patents**

- Chair Jason Howard read the patent slides.

**4. Approval of 29-March-05 to 31-March-05 Meeting Minutes**

- A motion was passed to approve the March meeting minutes, including any corrections to attendance list that are brought to Noelle's attention before the end of the May meeting. The approved minutes will be posted on the web site.

**8. Report out from IEEE Project Manager**

- Noelle Humenick, IEEE P1725 Project Manager, presented a report to the working group. Topics covered:
  - Current financial status. Edward Rashba, IEEE, will review the contract for updating to account for the number of entities that have paid the working group fee.
  - Current schedule. Chair Jason indicated that there may be a need for an extra draft and an extra meeting above what is currently scheduled. A decision will be made at the end of the meeting.
  - IEEE Standards Association Corporate membership is a requirement for participation on the sponsor ballot.
  - IEEE P1725 Web site is now available.
  - IEEE Std 1625-2003 references are now available on the web site. Noelle was requested to purchase the UL documents on behalf of the working group and make them available on the web site.

**9. Draft 2: Review form 8 comments**

- The entire working group reviewed Form 8 comments submitted on draft 2.
- The working group requested that Noelle find out the costs associated with the licensing of a possible trademark, and also to find out how the integrity of the mark is established and maintained.

**Day 2**                    **8:30 am to 5:00 pm**

**8. Subcommittee meetings**

- Subcommittees broke out into individual meetings to review Form 8 comments from previous day.

**Day 3**

**8:30 am to 3:30 pm**

**9. Draft 2: Review form 8 comments**

- Remaining unreviewed Draft 2 Form 8 comments.
- Highlights of cell team review from day 2
- Highlights from subcommittee breakout session

**10. Meeting Wrap Up**

- Updates from subcommittees.
- Assignment of Homework and Actions Items to Subcommittees
- Schedule–review of next steps

**11. New Business**

- None

**12. Next Meetings**

- **21-Jun-05 to 23-Jun-05**  
**Verizon, Bedminster, NJ**
- **23-Aug-05 to 25-Aug-05**  
**Superior Communications**  
**or**  
**Nokia, San Diego, CA**

**13. Adjournment**

The meeting was adjourned at 12:00 noon. The chair thanked the group for a productive meeting.

### IEEE P1725 Entity Roster

Key: DR = Designated Representative  
 DRA = Designated Representative Alternate  
 O = Observer  
 S = Staff

Subgroup	Entity Name	Rep Name	Rep Desig	WG Fee Paid	IEEE Standards Association (IEEE-SA) Corporate Member	Attendance History				
						1st meeting DC	2nd Meeting San Diego	3rd Meeting Dallas Jan 25-27	4th Meeting San Diego Mar 29-31	5th Meeting Schaumburg, IL May 10-12
	ATL	Anthony Wong								
	Argonne National Lab	Khalil Amine					X		X	X
	Asahi Kasei	Toshiyuki Furuyama						X		
		Yoshifumi Nishimura								X
	Bourms	Tim Ardley								X
	BYD	Chen Gang		X			X		X	X
		Robert Wang					X			
		Michael He					X			
		Mike Zhang								
		Xiao Feng								
	Cadex Electronics	Richard Janzen	DR					X	X	
	CEA	Virginia Williams				X		X		
	Calgard	John Zhang	DR	X			X		X	X
	China BAK Battery	Huanyu Mao	DR	X				X		X
	Cingular Wireless	David Chapmar				X			X	X
		Gen Scales								
	Dell	Jay Taylor							X	X
	E7 Technologies	Bob Eagle	DR	X			X		X	
	ERF	Jonathan Hernandez						X	X	X
	Exponent Failure Analysis Associates	Jan Swart				X		X	X	
		Ashish Arora								
	Gold Peak Industries	David Manis					X		X	
		Doug Magnuson					X			
	Hewlett Packard	Mike Edwards			X				X	X
	Hitachi Maxell	Hirohisa Shima						X	X	X
		Kazuo Mukai						X	X	X
	Intersil	Joon Park					X			
		Michael Coletta				X				
		Lance Chandler				X		X		
		Wyatt Fawcett								X
	Keri	Seung-Wook Eom								X
	Kyocera	Eddie Forouzar	DR	X		X	X		X	X
		Masayoshi Nakajima				X	X		X	X
		Fred Leavitt	DRA						X	X
	LG Chem	Jaek-Sik Chung							X	X
		Eun-Young Oh					X			X
		Steven Yoon				X				
		Gerry Shim						X		
		Soo-Ryoung Kim						X		X
		Danlee Lee								X
		Joo Hwan Sung								X
		Sung Ryul Kwon								X
	LG Electronics	Kyuman Lee				X				X
		Soonwoo Allen Kwon				X				X
	LGEMU	Danny Jeong				X	X	X		X
	Lishen	George Thomas	DR	X					X	
	Motorola	Carl Seaberg		X	X	X	X	X	X	X
		Michael Austin			X	X	X	X	X	X
		Jason Howard	DR							
		John Copeland			X	X	X	X	X	X
		John Dunne				X	X	X	X	X
		Terry Goedken				X	X	X		
		Russell Gyenes				X		X	X	X
		Wayne Penney						X	X	
		Eric Sledge				X	X	X	X	X
	NEC Tokin	Kazu Yamamoto						X		
		Tetsuo Shirasu						X		
	Nextel	Khaled Azer	DR	X		X		X	X	X
		Steve Dennett				X		X	X	X
		Eric Jacks	DRA					X		
	Nokia	Ed Ehrlich		X	X	X		X		
		JT Guerin	DR	X	X	X		X		
		Leo Fitzsimon				X	X	X	X	X
		Margaret Livingston							X	
		Markus Aaltonen							X	
		Markku Rajamaki						X	X	
		Stan Scheufler				X	X	X		X
		Walt Tamminen				X	X			
		Mike Kanninen					X			
	Panasonic	Charles P Monahan	DR	X	X	X	X	X	X	X
		Hideo Kaiya				X	X	X	X	X
		Joji Nishimura				X	X	X	X	X
		Shinichi Itoh				X	X	X	X	X
		Masunori Hamaaguchi				X	X	X	X	X
		Takeshi Yao				X	X	X	X	X
		Take Ito						X	X	X
	PCTest	Heng Te					X		X	X
		Randy Ortanez					X		X	
		Channy Park				X				
		Rene Sorra				X				
	Phihong	Dante De Guzman				X				
	Quaicomm	Mark Benton						X	X	
		Eric Siegel						X		
	Quallion LLC	Hisashi Tsukamoto				X	X	X	X	
		Paul M. Beach				X	X	X	X	
	Radio Shack	Pat Loehr				X	X	X	X	X

H (lead)

A (lead)

C (lead)	<b>Raychem Circuit Protection/Tyco</b>	Johnny Lam	DR	X		X	X	X	X	X
		Like Xie	DRA						X	
	<b>Research in Motion</b>	Jonathan Brubacher		X			X			X
		Martin Guthrie	DR			X		X	X	X
	<b>Samsung</b>	Gary Hong		X		X			X	
		Hyun D Lee				X				
		Ju Ho Song				X				
		David Hwang				X				
		Kendra M Green				X				
		Gordon Mallerud	DR			X	X	X	X	X
	<b>Samsung SDIA</b>	Ben Lim								X
		Jinuk Lee								X
	<b>Sanyo Energy</b>	Ali Pourfallah		X	X		X		X	
		Joe Decarlo						X		
		Hank Tsuda						X	X	X
		Larry Allen					X	X	X	X
		Takaashi Hasegawa					X			
		Ted Mi					X			
		Toru Morioka					X			
		Joseph Carcone	DR			X	X	X	X	X
		Ian Ikegami			X	X		X		
		Toru Amazutsum				X	X	X	X	X
		Kaz Kobayash						X	X	X
		Debbie Olson					X	X	X	X
	<b>Siemens Com</b>	Milton A Ponce de Leon			X	X	X			
	<b>Sony</b>	Steven Coston				X	X			
		Yosuke Kita							X	X
		Koji Sekai								X
	<b>Sprint</b>	Gary Schick	DR	X	X	X	X	X	X	X
	<b>Sunderland Wireless</b>	John Sunderland					X			
	<b>Superior Communication</b>	Harry Mkhitarian	DR	X				X	X	
	<b>Texas Instruments</b>	Todd Vanyo	DR	X		X		X	X	X
		Upal Sengupta	DRA				X	X	X	X
	<b>T-Mobile US</b>	Gary Jones				X				
	<b>U.S. Cellular</b>	Ted Mahan		X		X			X	
		Michael Dore	DR					X	X	X
	<b>U.S. Consumer Product Safety Commission</b>	Doug Lee				X	X	X		
	<b>UTStarcom/Audiovox</b>	Daniel McGuire						X		
		Jim Papadopoulos						X		
	<b>Valence Technology</b>	Ken Pierrehumbert				X	X	X		
		Oliver Gross					X			
	<b>Varta Microbattery</b>	Martin Krebs						X	X	
	<b>Verizon Wireless</b>	George Zysman		X	X	X	X	X	X	X
		Lou LaMedica	DR			X	X	X	X	X
		Staff								
	<b>IEEE-SA</b>	Noelle Humenick	S					X	X	X
	<b>IEEE-SA</b>	Edward J Rashba	S			X	X			
		<b>Observers</b>								
		Broddarp	Ralph Brodd	O				X	X	X
	<b>Cetec Inc.</b>	Lothar Schmidt	O						X	X
	<b>CTIA</b>	Mark Sargent	O			X	X		X	X
		Susan T. Pollard	O			X				
		Will S Lightfoot	O			X				
<b>U.S. CPFL</b>	Doug Lee	O							X	