

**K-16 Electronics Cooling Committee
Meeting Minutes
Thursday, May 30, 2002, 7-8 pm
ITherm 2002, San Diego, CA**

Attending Members:

Abdelmessih	Amanie	Saint Martin's
Amon	Cristina	Carnegie Mellon
Agonafer	Dereje	University of Texas at Arlington
Bharvnani	Sushil	Auburn University
Ellsworth	Michael	IBM Corp
Garimella	Suresh	Purdue University
Ishizuka	Masaru	Toyama Prefectural University
Murthy	Jayathi	Purdue University
Price	Donald	Raytheon
Ramakrishna	Koneru	Motorola
Refai-Ahmed	Gamal	Ceyba
Samakia	Bahgat	SUNY Binghamton
Schmidt	Roger	IBM Corp
Walker	Greg	Vanderbilt
Wirtz	Rich	University of Nevada, Reno
Yovanovich	Michael	University of Waterloo

Attending Visitors

Belady	Christian	Hewlett Packard
Copeland	David	Fujitsu Labs
Graham	Samuel	Sandia National Labs
Malone	Chris	Hewlett Packard
Novotny	Shlomo	Sun Microsystems
Patel	Chandrakant	Hewlett Packard

Topics:

1. **Approved minutes of the K-16 meeting held at the 2001 IMECE, New York, NY.**
2. **ITherm 2002** update from Cristina Amon, General Chair: Excellent turnout with 270 registrants not including exhibitors (30% more than for ITherm 2000) and 150 papers (35% more than for ITherm 2000).
3. **IMECE 2002** (<http://www.asme.org/congress/>) update from Cristina Amon on behalf of Pradip Majumdar, KCR:
 - There will be seven presentation sessions (one session was split into two; one session was cancelled) and three panel sessions.
 - Session chairs should be sending out final notifications (was to be done by 5/24/2002).

- Deadline for final version to lead session organizer is 7/13/2002.
- There was an update given on a panel session chaired by Mike Ellsworth and Dereje Agonafer entitled, “Challenges in Cooling High Heat Flux Electronic Applications.” The session will address the following themes (all or part): Air cooling limits; heat flux projections; and high heat flux (liquid) cooling technologies (direct or indirect). The planned panelists include Shlomo Novotny (Sun Microsystems), Christian Belady (HP/Compaq), Ravi Mahajan (Intel), Bret Lehman (IBM), Gamal Rafai-Ahmed (Ceyba). It was suggested at the meeting that a NEMI perspective be included. Yojendra Joshi, co-chair of thermal management portion of this years NEMI publication, will be invited to participate as a panelist.

4. **InterPACK 2003** update from Don Price, General Chair:

- InterPACK '03 (<http://www.asme.org/conf/ipack'03/>) will be held July 6-13, 2003, at the Hyatt Regency Maui, Hawaii, USA.
- Dr. Donald Price (Raytheon) will be General Chair. Dr. Motto Fujii (Kyushu University) will be the co-general chair for the Far East.
- Dr. Alfonso Ortega (University of Arizona) will be conference program chair. Al is planning to fill track chair positions within the next few weeks.
- Dave Copeland (Fujitsu) and Dereje Agonafer will chair the exhibits committee. The hotel will provide space for 14 exhibits (6' wide each) at no charge.
- Gamal Rafai-Ahmed will chair the committee on short courses/workshops. Discussion has taken place to adjust the registration fee so that everyone is allowed one short course. This proposal will be investigated further.
- Abstract deadline for early approval/travel authorization is 9/20/2002.
- Abstract submission for normal submission is 11/22/2002.
- New tracks being added on embedded passives and military electronics.
- Proposal to add some surcharge to the registration fee to go to the (ASME) EEPD division (EEPД currently has no operating budget).
- Don was looking for a volunteer (or volunteers) to chair a committee to encourage industry to subsidize luncheons, refreshments, etc. (Shlomo Novotny (Sun) and Christian Belady (HP) volunteered the next day at an InterPACK '03 planning meeting).

5. The following question was put forth to the committee by Cristina Amon: Should the committee sponsor technical sessions at what would amount to be the National Heat Transfer Conference (NHTC) in 2003 despite not knowing where, when, or with what organization (AIAA, AIChE, etc.) it would be held with? The primary reason for not sponsoring sessions is the strong support and participation planned for and timing of InterPACK '03 (NHTC sessions were not sponsored in 2002 in lieu of ITherm '02). It was decided without objection not to sponsor k-16 sessions at the NHTC in 2003. However, if unsolicited abstracts on thermal phenomena in electronics are received, then the organizers of NHTC'03 will be instructed to contact Amanie Abdelmessih as she has kindly offered to chair the resulting session.
6. Cristina Amon brought up the topic of filling the **KCR** position for **IMECE 2003**. Dereje Agonafer

nominated **Mike Ellsworth**. Mike accepted and was selected unanimously.

7. Suresh Garimella proposed to do away with IMECE session chairs filling out the ASME 1337. It appears that all the information contained within said form could be extracted from the conference web page itself. Cristina Amon has agreed to send an E-mail to ASME staff on behalf of the K-16 committee with the request.
8. **K-16 members are highly encouraged to update their member information** in the **K-16 website** (<http://www.asme.org/divisions/htd/K16/>). Contact the k-16 webmaster, LTC Eric B. Zimmerman (United States Military Academy) at eric-zimmerman@usma.edu with your updates.
9. **Next K-16 meeting** will be held at IMECE 02 in New Orleans.
10. Adjournment