



IEEE COMPONENTS, PACKAGING AND  
MANUFACTURING TECHNOLOGY SOCIETY  
SAN DIEGO CHAPTER



**Technical Seminar on  
“Packaging of Biomedical Electronic Devices”  
22 January 2005**

Location: Room 116, UCSD Extension Sorrento Mesa Center  
6925 Lusk Blvd.  
**San Diego, CA, 92121**

**Technical Program (As of 12/6/04)**

- 8:00am Registration. Coffee and donuts available
- 8:30am Welcome.
- 8:35am Dr. Darryl D’Lima, Scripps Clinic Center for Orthopaedic Research and Education (SCORE): “Design and Packaging Considerations of the Electronic Knee (‘E-Knee’)”. (See [http://www.scrippsclinic.com/news/Article\\_Fulltext.cfm?ID=213](http://www.scrippsclinic.com/news/Article_Fulltext.cfm?ID=213))
- 9:05am Dr. Christopher Druzgalski, Ph.D, Professor Electrical/BioMedical Engineering, California State University, Long Beach: “Component, Sensor, and Subsystem Technology Issues Related to Biomedical Electronic Device Design and Packaging”.
- 10:05am Break
- 10:20am James A. Steele Jr., Senior Reliability and Quality Assurance Manger, Medtronic Submicron Wafer Fab: “Introduction to Implantable Medical Devices”
- 11:00am James A. Steele Jr.: “Medical Integrated Circuits”
- 11:20am Mark Henschel, Manager, Hybrid Process Development, Medtronic Microelectronics Center: “Medical Microelectronic Packaging”
- 12:00am Lunch (Provided)
- 12:45pm James A. Steele Jr.: “Implantable Medical Materials”
- 1:00pm Clive Groom, Retired; Formerly Sr RQA Manager, Reliability Systems, Medtronic Microelectronics Center: “Medical Device Energy Sources”
- 2:00pm Clive Groom: “Change Management in the Medical Device Industry”
- 2:45pm Break
- 3:00pm Clive Groom: “Reliability Test Levels/Methodologies”
- 3:30pm Robert Czajkowski, NexGen: “Medical Application Electronic Device Packaging”
- 4:30pm Wrap-up and adjourn

<u>Registration Fees:</u>	<u>Received by 1/12/2005</u>	<u>After 1/12/2005 or at the Door</u>
IEEE Member:	\$50.00	\$60.00
Non-IEEE Member	\$60.00	\$70.00

(Early registration recommended. Capacity is limited.)

Registration form is available at  
<http://www.cpmpt.org/docs/sd-bio.html>

Register by mail:  
L. Merrill Palmer  
4275 Mars Way  
La Mesa, CA 91941-7281  
Register by email and PayPal:  
[BioMedPkgg@cox.net](mailto:BioMedPkgg@cox.net)

For additional information see <http://www.cpmpt.org/docs/sd-bio.html> or email [BioMedPkgg@cox.net](mailto:BioMedPkgg@cox.net).