Where Medicine Meets Technology For Tomorrow’s Innovation
The Institute for Engineering in Medicine (IEM) is an interdisciplinary research organization uniting engineering and health sciences faculty and counterparts in the community, to create new medical devices, solve clinical problems, and promote collaboration with industry.
ASSOCIATE DIRECTORS

Jeffrey McCullough, Ph.D.
Director, IEM

Arthur Erdman, Ph.D.
Director, Medical Devices Center

John Bischof, Ph.D.
Associate Director, IEM, Research

Gerry Timm, Ph.D.
Associate Director, IEM, External Relations

Paul Iaizzo, Ph.D.
Associate Director, IEM, Education
IEM MEMBER RESEARCH INTERESTS

Number represents: Percentage of members in interest group

- Biocompatibility {4%}
- Biomaterials {10%}
- Biomechanics {10%}
- Biomedical Imaging {10%}
- Bioprostheses {3%}
- Bioreactors {2%}
- Device Design {8%}
- Drug Delivery {10%}
- Electrophysiology {7%}
- Information Processing {6%}
- MEMS {4%}
- Mathematical Modeling {7%}
- Nanotechnology {2%}
- Thermal Therapies {5%}
- Tissue Engineering {10%}
- Misc {2%}
The Institute for Engineering in Medicine

The Medical Device Center

Center for Cardiovascular Repair

Other Centers

Other Entities

The NSF-Industry/University Cooperative Research Center

* IEM will report to the Deans of IT and the Medical school

*Former BMEI
A Bridge from the University to Industry and Other Partners
The MDC has a combined mission of basic research, applied/translational research, education and training, and outreach/public engagement, all related to medical devices.
Role of MDC within the U of M

- Acceleration of interdisciplinary medical device R&D
- Distribute funding based on a peer review process
- Focus on projects that need a boost to achieve national prominence or generate important IP
- Create a Core Lab with common use equipment
- Facilitate connections to other Centers and Labs
- Support U of M functions related to medical devices
- Support the teaching/training programs of departments related to medical devices
- Actively interface with the medical device industry
- Improve health care world-wide

and more....
External Role of the Medical Device Center

Seed fund R&D at U to be attractive to Industry
Initiate/assist in generation of University - Industry Research Consortiums
Facilitating Industry Fellows program
Facilitating workshops/training courses*
Facilitating connections for faculty to Industry needs
Participate in Job Fairs/Poster sessions
Work with Lifescience Alley
Design of Medical Devices Conference

April 15th-17th, 2008
Radisson University Hotel, Minneapolis, MN

Selected Technical Session Topics for 2008 DMD
- Live Surgery
- Cardiovascular
- Neurotechnology
- Nanotechnology/MEMS
- Product and Business Development
- Ophthalmic Engineering
- Image-Guided Surgery
- Dental Engineering
- Materials

Keynotes Speakers (thus far)
- Robert Langer, MIT (Tuesday)
- Fred Colen, Boston Scientific (Thursday)

Design of Medical Devices Conference Schedule

Thurs. 11/1/07  Online Registration Opens
Tues. 4/15/08  Technical/Clinical Sessions
Wed. 4/16/08  Technical/Clinical Sessions
Thurs. 4/17/08  President’s 21st Century Interdisciplinary Conference

www.dmdconf.org
Thanks

QUESTIONS?

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