

Poster and Presentation Assignment
BE-410, Spring '06, Dr. C. S. Tritt

Prepare and present a poster on one of the following topics **or a related one**. Use the material in your textbook section as your starting point (**i.e., review it**), but include material from at least three relatively recent journal sources (**i.e., expand on what's in the textbook**). Posters should be 36" by 30" tall and include appropriate illustrations and the MSOE logo (available for download from O:\common\MSOE Logos on the MSOE Novell network). Presentations should be 10 to 15 minutes long (including questions). Presentations are due during week 9 and 10 (4 per day) and there will be a "public" poster session from 11:00 to 1:00 on Monday, May 15 (the start of week 10).

Topics and presentation times are available on a first come, first served basis.

- 2.7 Bioresorbable and Bioerodible Materials
- 2.13 Nonfouling Surfaces
- 2.14 Surface Modification
- 2.15 Textured and Porous Materials
- 4.5 Systemic Toxicity
- 4.6 Blood Material Interactions
- 4.7 Tumorigenesis and Biomaterials
- 4.8 Biofilms, Biomaterial and Device-Related Infections
- 5.4 Evaluation of Blood-Material Interactions
- 5.5 Large Animal Models in ... Biomaterials Research and Testing
- 7.2 Nonthrombogenic Treatments and Strategies
- 7.3 Cardiovascular Medical Devices
- 7.4 Implantable Cardiac Assist Devices
- 7.5 Artificial Red Blood Cell Substitutes
- 7.6 Extracorporeal Artificial Organs
- 7.7 Orthopedic Applications
- 7.8 Dental Implantation
- 7.10 Ophthalmological Applications
- 7.11 Intraocular Lens Implants
- 7.12 Burn Dressings and Skin Substitutes
- 7.14 Drug Delivery Systems
- 7.15 Bioelectrodes
- 7.16 Cochlear (and Balance) Prostheses
- 7.17 Biomedical Sensors and Biosensors
- 7.18 Diagnostics and Biomaterials
- 8.3 Immunoisolation
- 8.4 Synthetic Bioresorbable Polymer Scaffolds

Or a survey of the applications of a particular material or the materials used in a particular device.

Key dates: 3/7 Project assigned. Start selecting topics.
3/13 Topics selected.
4/4 Preliminary list of references due.
5/1 Target date for submission for printing by A.E. department.
5/15 Poster Session (all faculty invited)

Resources:

<http://www.ncsu.edu/project/posters/IndexStart.html> (N.C. State website. Very good overall instructions. See item “6. Creating Your Poster” for specific PowerPoint setup instructions.)

A.E. Department Secretary: Maureen Rochester, rocheste@msoe.edu, x-7301, CC-69 (e-mail or provide your .ppt file to Maureen ideally about 2 weeks before it is needed; give Dr. Tritt \$10/poster to cover the cost of supplies (Kinko’s will charge you \$65/poster)).