Presentation Schedule: Fall 2017

The numbers below correspond to the poster number on the poster map (reverse), and are followed by the design group’s medical specialty, presentation time to advisor, team name, and advisor.

**BME 400 - Seniors**

01 12:05 pm  Plastic Surgery  Medical Art Prosthetics: Individualized functional finger prosthesis (Dr. Joseph Towles)
02 12:17 pm  Research tool  Noninvasive tracking of shear wave speeds in tendons during movement (Dr. Joseph Towles)
03 12:29 pm  Research Tool  Creation of a urothelial permeability culture chamber (Dr. Tracy Puccinelli)
04 12:41 pm  Prosthetics  “What do you mean I cannot have surgery? My knee is killing me!” (Dr. Joseph Towles)
05 12:53 pm  OB/GYN  SLIP project (Solution for Leakage through an Innovative Pessary) (Dr. Tracy Puccinelli)
06 1:05 pm  Prosthetics  Prosthetic ankle with biomimetic motion for weight lifting (Dr. Joseph Towles)
07 1:17 pm  Surgery  Boston Scientific: Retrograde transpedal access solution (Dr. Tracy Puccinelli)
08 1:29 pm  Prosthetics  Medical Art Prosthetics: Engineering a composite medical prosthesis (Dr. Tracy Puccinelli)
09 1:41 pm  Orthopedics  3D printed cutting guide for orthopedic surgery in animals (Dr. Joseph Towles)
10 1:05 pm  Urology  Anastomosis tension meter (Prof. Jeremy Rogers)
11 1:17 pm  Ophthalmology  Directing the contralateral eye during laser retinopathy (Prof. Jeremy Rogers)
12 1:29 pm  Research Tool  Bioanalytical uncapping device (Dr. Amit Nimunkar)
13 1:41 pm  Medical Imaging  Implantable light source for driving optogenetic constructs (Prof. Jeremy Rogers)
14 1:53 pm  Cardiology  Temporary Pacemaker Training Simulator (Dr. Amit Nimunkar)
15 1:05 pm  Research Tool  Miniature Microscope for FRET Microscopy (Prof. Jeremy Rogers)
16 1:17 pm  Med. Simulation  Reproducing swallowing in a thyroid exam simulator (Dr. Amit Nimunkar)
17 1:29 pm  Med. Simulation  Force monitoring model for casting a distal radius fracture (Dr. Amit Nimunkar)
18 1:20 pm  Rehabilitation  Virtual Reality Pain Management (Prof. Paul Thompson)
19 1:20 pm  Radiology  Device for capturing IVC filters (Prof. Paul Thompson)
20 1:29 pm  Research Tool  Somatosensory stimulation apparatus for rodent cages (Mitch Tyler)
21 1:41 pm  Pulmonaryology  Continuous monitoring of asthma control (Prof. Paul Thompson)
22 1:29 pm  Medical Imaging  Quantitative Reporting of Protein Amount by a CCTO Sensor (Prof. Kristyn Masters)
23 1:05 pm  Research Tool  Real-time measurement of ciliary activity (Prof. Paul Campagnola)
24 1:05 pm  Research Tool  Langendorff apparatus for Guinea pig cardiomyocyte isolation (Prof. Wan-Ju Li)
25 1:20 pm  Oncology  Measurement of animal tumor volume for cancer research studies (Prof. Justin Williams)
26 1:20 pm  Pulmonaryology  Tissue biopsy dissociation (Prof. Wan-Ju Li)
27 1:05 pm  OB/GYN  Remote patient monitoring device for pregnancy-related hypertension disorders (Prof. Willis Tompkins)
28 1:20 pm  Oncology  Measurement of animal tumor volume for cancer research studies (Prof. Justin Williams)
29 1:25 pm  Orthopedics  Osteochondral transplant system (Prof. Bill Murphy)
30 1:50 pm  Urology  Rapid Urine Stone Risk Detector (Prof. Bill Murphy)
31 1:05 pm  Radiology  Fetal radiation shield for pregnant patients receiving radiation therapy (Prof. Ed Bersu)
32 1:20 pm  Physical Therapy  Exercise device for child with profound weakness for use in a wheelchair (Prof. Ed Bersu)
33 1:25 pm  Research Tool  Thermo Scientific: Raman accessory design for manufacturability (Prof. Justin Williams)
34 1:20 pm  Pulmonaryology  Tissue biopsy dissociation (Prof. Wan-Ju Li)
35 1:20 pm  OB/GYN  Remote patient monitoring device for pregnancy-related hypertension disorders (Prof. Willis Tompkins)
36 1:50 pm  Oncology  Measurement of animal tumor volume for cancer research studies (Prof. Justin Williams)
37 1:20 pm  Research Tool  Langendorff apparatus for Guinea pig cardiomyocyte isolation (Prof. Wan-Ju Li)
38 1:20 pm  Rehabilitation  Mobile arm support for wheelchair tennis/adaptive sports/gaming (Prof. Willis Tompkins)
39 1:20 pm  Med. Simulation  Arthroctesis model for veterinary student training (Prof. Beth Meyerand)
40 1:20 pm  Anesthesiology  Neonatal breathing system (Dr. John Puccinelli)
41 1:35 pm  Vet. Medicine  Tie-over bandage for improved open-wound management (Prof. Beth Meyerand)
42 1:20 pm  Oncology  Rapid needle alignment for localizing breast tumors (Dr. Lonie Salkowski)
43 1:05 pm  Research Tool  Ergonomic pathology tweezers/forceps (Prof. Beth Meyerand)
44 1:20 pm  Surgery  Baxter: UV disinfection system for access connectors (Dr. John Puccinelli)
45 1:35 pm  Surgery  TherVoyant: Compact guide for minimally invasive surgery in an MRI scanner (Prof. Beth Meyerand)
46 1:20 pm  Oncology  Flow channel design for improved biomarker detection in liquid biopsy (Prof. Paul Campagnola)
47 1:20 pm  Med. Imaging  Quantitative Reporting of Protein Amount by a CCTO Sensor (Prof. Kristyn Masters)
48 1:20 pm  Research Tool  Creation of a urothelial permeability culture chamber (Dr. Tracy Puccinelli)
49 1:20 pm  Otolaryngology  Nasal foreign body extractor (Prof. Naomi Chesler)
50 1:20 pm  Cardiology  Embolization Coil for Aortic Aneurysm (Prof. Naomi Chesler)
51 1:20 pm  Rehabilitation  Secondary Mobility Device for Airline Travel (Dr. Aaron Suminski)
52 1:20 pm  Orthopedics  3D printed cutting guide for orthopedic surgery in animals (Dr. Joseph Towles)
53 1:20 pm  Prosthetics  Medical Art Prosthetics: Prosthetic ear attachment anchor (Prof. Naomi Chesler)
54 1:20 pm  Radiology  The Doppler Dot (Prof. Naomi Chesler)
55 1:20 pm  Research Tool  Ergonomic mojo shaking device (Dr. Aaron Suminski)
56 1:20 pm  Medical Imaging  Implantable light source for driving optogenetic constructs (Prof. Jeremy Rogers)
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**BME 300 – Sophomores/Juniors**

27 12:05 pm  Otolaryngology  Ear gator (Prof. Ed Bersu)
28 12:20 pm  OB/GYN  Promoting reproductive autonomy through creation of an IUD self-removal device (Prof. Randolph Ashton)
29 12:35 pm  Orthopedics  Osteochondral transplant system (Prof. Bill Murphy)
30 12:50 pm  Urology  Rapid Urine Stone Risk Detector (Prof. Bill Murphy)
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48 1:35 pm  Research Tool  Real-time measurement of ciliary activity (Prof. Paul Campagnola)
49 1:20 pm  Urology  Dialysis Solution Analysis for Infection Prevention (Prof. Walter Block)
50 1:05 pm  Rehabilitation  Mueller Sports Medicine: Anatomically tracking knee hinge (Prof. Walter Block)
51 1:20 pm  Surgery  Reproducible thermal injury template for burn wound model (Prof. Kristyn Masters)
52 1:35 pm  Orthopedics  Use of pH or glucose probes to diagnose compartment syndrome (Prof. Walter Block)
53 01:50 pm  Rehabilitation  VibeTech: Software, game to study the effects of therapeutic vibration rehabilitation (Prof. Walter Block)
54 1:20 pm  Rehabilitation  Secondary Mobility Device for Airline Travel (Dr. Aaron Suminski)
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58 1:05 pm  Research Tool  Ergonomic mojo shaking device (Dr. Aaron Suminski)
59 1:20 pm  Geriatrics  Elder Lift - "I've fallen and I can't get up!" (Dr. Aaron Suminski)
60 1:35 pm  Physical Therapy  Wheelchair attachment for leg-strengthening therapy (Dr. Aaron Suminski)
61 1:41 pm  Otolaryngology  Nasal foreign body extractor (Prof. Naomi Chesler)

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