



May 14, 2018

SPE Detroit Technical Program

Applications of Polymer Materials in Orthopaedic Surgery

Michigan State University Management Education Center, Troy, MI

Topic: Applications of Polymer Materials in Orthopaedic Surgery

Location: Michigan State University Management Education Center
811 W. Square Lake Rd. Troy, MI 48098

Date: May 14, 2018

Time: 5:00 PM – 8:00 PM

Agenda:

5:00 PM Networking and Socializing

6:00 PM Dinner

6:30 PM Presentation by Dr. Kevin Baker, Director of Orthopaedic Research, Department of Orthopaedic Surgery Beaumont Hospital - Research Institute “Applications of Polymer Materials in Orthopaedic Surgery”

7:30 PM Q & A

8:00 PM Program Closing



Dr. Baker is the Director of Orthopaedic Research at William Beaumont Hospital in Royal Oak Michigan and also an Associate Professor of Orthopaedic Surgery at the Oakland University-William Beaumont School of Medicine. Dr. Baker has a B.S. degree in Biomedical Engineering and M.Sc. degree in Materials Science & Engineering from Michigan Technological University and a Ph.D. degree in Biomedical Engineering from Wayne State University. Dr. Baker oversees a multi-disciplinary and multi-length scale research program within the Department of Orthopaedic Surgery at William Beaumont Hospital.

Dr. Baker's research spans characterizing degenerative diseases, such as post-traumatic osteoarthritis and degenerative disc disease, as well as tissue engineering and regenerative medicine strategies to enhance the healing of bone, cartilage, intervertebral disc, and tendons/ligaments. With respect to polymers, his research program has involved performing wear and failure analysis on retrieved orthopaedic implants comprised of ultra-high molecular weight polyethylene, poly-ether-ether-ketone, and poly-d-lactide. He has also been active in the development of resorbable polymer matrix nanocomposites for tissue engineering applications, and polymeric nanoparticles for drug delivery. Dr. Baker believes that polymers will play an increasingly important role in the future of orthopaedic surgery.

Cost: \$75 for one seat \$500 for a table of 8. Free for, SPE Detroit Section board members, students and faculties.

RSVP: Ms. Karen Rhodes-Parker at karen@spedetroit.com or call (248) 244-8993 Ext 3.