



GEORGIA SECTION

MEETING Announcement



Tuesday, May 27th 2014

**The Chicken or the Egg: Basic Materials
Research and New Technology
Dr. Ken Gall**

Plus! The Percy Julian HS Award Ceremony

Location:

Mary Macs Tea Room
224 Ponce de Leon Ave
Atlanta, GA 30308

Directions: [Click Here](#)

Tuesday, May 27th 2014

6:00 pm Meet and mingle (cash bar)
6:30 pm Dinner
7:30 pm Presentation

Menu (Buffet):

Southern Fried Chicken
Turkey with Cornbread Dressing&Gravy
Slow Cooked BBQ Pork

Macaroni and Cheese*
Sweet Potato Soufflé*
Steamed Vegetable Medley*

Assorted Bread
Sweet and Unsweet Tea

Georgia Peach Cobbler

* Vegetarian-Friendly

RSVP by 4:00 pm on 23 May 2014
to Joel Pollino at joelpollino@gmail.com

Price:

\$30 regular; \$15 students, K-12 teachers, retired
current ACS members

Payment:

At the Door: Cash, Check to: "Georgia Section
ACS" Or ^{New} Credit Card

Ahead of Time: "Pay Pal" [Click Here](#)



Dr. Ken Gall

Professor, Georgia Institute of Technology
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<http://www.mse.gatech.edu/faculty/gall>

Founder & CTO, MedShape & Vertera
Atlanta, GA 30318

<http://www.medshape.com/>



Dr. Ken Gall is a Professor at the Georgia Institute of Technology with joint appointments in the School of Materials Science and Engineering, the Woodruff School of Mechanical Engineering, and the Bioengineering Program. He has over 160 peer-reviewed journal publications, with over 6,000 citations with an h-index of 45. He has given over 200 professional lectures. His technical expertise is in biomaterials and the mechanical properties of materials, and his contributions range from the discovery of a new phase transformation in nanometer scaled gold wires to the creation

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of a new class of active shape memory polymers. He has served as a consultant to various companies including Johnson & Johnson, Abbott Labs, Boston Scientific, W.L. Gore, the US Military, and the US Intelligence Community. Dr. Gall has also been an expert witness on dozens of patent litigations involving biomaterials. Dr. Gall founded MedShape and Vertera, both commercializing university materials technologies. MedShape has cleared four distinct orthopedic implants containing new materials through the FDA, all of which are being sold in the medical device market.

The Chicken or the Egg: Basic Materials Research and New Technology

Abstract: Does new basic materials knowledge drive technology innovation or do emerging technology needs motivate the creation of new knowledge and new materials? This answer to this question is simple: both. In this talk we will discuss two different experiences stemming my own research in shape memory materials. In the field of bone fracture fixation, basic science research aimed at understanding a vexing

materials phenomenon “unintentionally” created knowledge that enabled a shape memory alloy product breakthrough. On the other hand, in the field of soft tissue ACL reconstruction, a clear product need unleashed a flurry of basic materials research aimed at creating and understanding a new class of medical grade shape memory polymers. I will tell both stories from a historical perspective, highlighting the interesting basic materials science and product development challenges throughout.
