Webpage: http://biomed.tamu.edu/obsl



Biomaterials



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mechanics ntinuum 🔪 mechanics

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aging he most exciting aspect of my current research is that we develop optical, laser, and nano-particle based biomedical sensors that have the tems to make a difference in people's lives in many different ways. For terns and a people's lives in many different was in stance, by developing a noninvasive optical method, using lectify or escent or polarized light, to measure the blood sugar in diabetic

mechanics.

Mechanics

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mechanics potential infection that comes with current measurement methods nomaterials that require them to prick the skin. Further, by investigating an approach known as surface enhanced Raman spectroscopy, that

tical point-of-care technologies to help the doctor make an earlier diagnosis and provide treatment for patients with Alzheimer's disease aging patients about to have a heart attack."

Optical

<u>sensing</u> hopgiography

sensing

hop Ordi Coté is Head of the Department of Biomedical Engineering and holds the meChanles H. and Bettye Barclay Professorship in Engineering at Texas A&M University. He joined the Texas A&M Engineering faculty in 1991 as an maassistant professor and was named professor in 2002. Dr. Coté directs the

Tissue Optical Biosensing Laboratory, where research focuses on the development rosofomacro-scale to nano-scale systems using lasers, fiberoptics and electronics for new, noninvasive ways to test blood sugar levels in

diabetes; to detect other body chemicals such as beta amyloid for

Alzheimer's disease; to detect analytes in cells and cell culture; to optical assess cardiovascular disease, and to diagnose cancer. Dr. Coté is a coholder of four U.S. patents and over 150 publications. He is a founder of the small medical device company, BioTex, Inc. He is a Fellow of the American Institute for Medical and Biological Engineering. He is a Fellow of the Michael E. DeBakey Institute for Comparative Cardiovascular Science and Biomedical Devices at Texas A&M. He is the recipient of the University of Connecticut School of Engineering Academy of Distinguished Engineers and the Mary Jane Kugel Award from the Juvenile Diabetes Research Foundation. He has also received both the Association of Former Students Faculty Fellow Award and the Faculty Distinguished Achievement Award in Teaching from Texas A&M. He is a member of IEEE-Engineering in Medicine & Biology Society, SPIE-Biomedical Optics Group, BMES-Biomedical Engineering Society, ASEE-American Society for Engineering Education, and Tau Beta Pi Engineering Biomedical Honor Society. Dr. Coté received his master's and Ph.D. degrees in

Engineering?bioengineering from the University of Connecticut. He has a bachelor's Things degree in electrical engineering from the Rochester Institute of Technology. You His tenure at Texas A&M includes work with NASA-Johnson Space Center, NIH, NSF, DOE, DoD, The Whitaker Foundation and other private foundations, Oak Ridge National Lab, & industry.

With

Your Keywords



Gerard L Cote Charles H. & Bettye Barclay Professor and Department Head Office: 337D Zachry Phone: 979-845-4196 Email:

Education: Ph.D., Bioengineering, University of Connecticut, 1990 M.S., Bioengineering, University of Connecticut, 1987 B.S., Electrical Engineering, Rochester Institute of Technology, 1986

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