

May 2006 Event

Dinner and technical presentation: **Applied Bionics**

Reading Movement Intentions from our Brains

Tuesday, May 16, 2006

Tom Bever, Event Captain (314)-210-9922

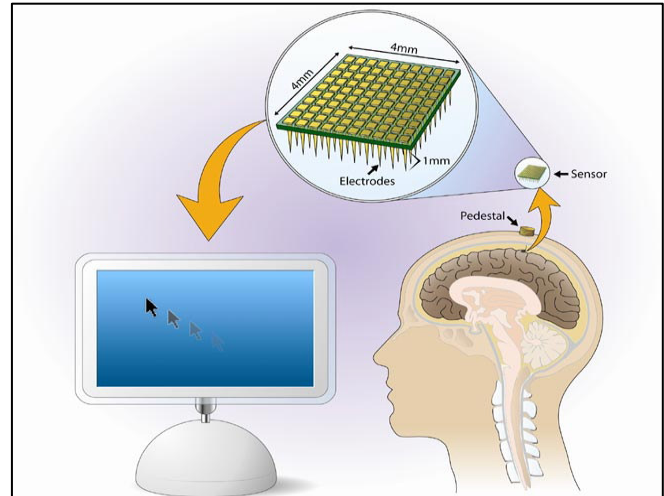
Dr. Daniel W. Moran, Assistant Professor of Biomedical Engineering, Washington University School of Engineering & Applied Science focuses his research on the areas of voluntary motor control. He is also interested in the areas of motor learning and neural plasticity. He is currently affiliated with the Society for Neuroscience, the Society for the Neural Control of Movement, the American Society of Biomechanics, the Institute of Electrical and Electronic Engineers and IEEE Engineering in Medicine and Biology.



Science fiction writers have long explored the possible relationships between humans, machines and computers. In the 1970's "The Six Million Dollar Man" captured the imagination of TV viewers with a super hero who had mechanical and electronic hardware implants that gave him extraordinary powers. The term "bionic" was coined, about this time, to represent the melding of mechanical, electronic and biological systems.

Today biomedical engineering is a rapidly growing field and "bionics" engineers are making great strides in improving the quality of life for people who have suffered impairment of their sight, hearing, speech or mobility. Recent machine and computer technology has produced some outstanding developments in mechanized prosthetic devices but most of these still leave the brain out of the control loop. Users must be trained to activate specific muscle activities in remaining tissues to trigger sensors in these devices.

With his expertise in biomedical engineering, voluntary motor control, motor cortical activity, motor learning and neural plasticity, Dr. Moran's research will be crucial in solving the problems of direct brain computer interfacing. This could lead the way to improved prosthetics and to the control of motor function to those with spinal cord injuries or other neuromuscular impairments.



Date: Tuesday, May 16, 2006.

Location: Favazza's Restaurant 5201 Southwest Avenue, St. Louis, Missouri 63139, (314) 772-4454.

Directions: From Interstate 40/64 or 44 take Kingshighway south to Southwest Avenue, then west on Southwest Avenue to Favazza's restaurant at the intersection of Southwest and Marconi. Parking is north along Marconi.

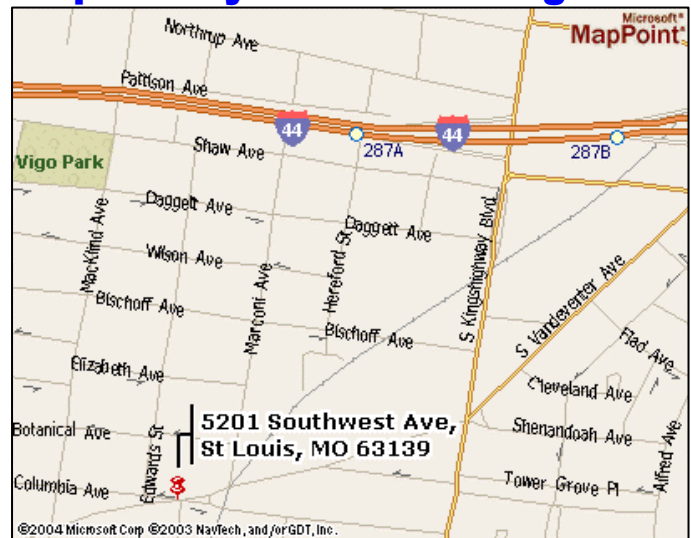
Time: 5:30 Social, 6:00 Dinner, 7:00 Program.

Dinner: Choice of: Veal Parmigiano, Sicilian Chicken, Pasta Primavera, or Sole Piccata, Salad, Side of pasta, Cannoli.

Cost: \$25 for members and guests, \$15 for students.

Reservations: Reservation deadline is 3:00 pm on Monday May 15, 2006. To make reservations contact this event's captain Thomas Bever at bevert@asme.org or (314) 210-9922.

Map to May dinner meeting:



**Please join us at the upcoming
ASME-STL Monthly Board Meeting
6:00 p.m. Thursday May 11th 2006
at Laclede Street Bar and Grill
3818 Laclede Avenue
near Saint Louis University Campus**

Election of St. Louis Section Officers

The nominating committee has nominated several persons for potential election as officers of our St. Louis section for the upcoming 2006/2007 year. The nominees are:

Chair - **Dr. Sridhar Condoor**

Vice Chair - **Angela Berring**

Secretary - **Mary Hammond**

Treasurer - **John Keplinger**

No other additional nominations have yet been received by the Secretary of ASME St. Louis Section, (acberring@olin.com)

Phone: (618) 258-2214

At the upcoming Section dinner on May 16th, if only one nomination has been made for each office and if no further nominations have been made by petition signed by not less than 15 members, the Chairman shall direct the Secretary to cast a ballot for the unanimous election for the nominees. If there is more than one nominee for any office, through the

selections of the Committee or by petition, the Chairman shall direct the Secretary to submit a letter ballot, containing the names of all nominees and blank spaces for the write-in of choices, to the membership. All St. Louis section members are urged to attend the May 16th dinner meeting.

ASME-STL Section

Programs for the year 2006-2007,

Activities planning for upcoming season and next year will begin soon. The first planning meeting is set for Tuesday, June 13th 2006. All members are welcome to join in with ideas for programs, events, tours, lectures or other activities.

Meet at 6:00 p.m. at Laclede Street Bar and Grill, 3818 Laclede Avenue, Saint Louis, MO 63108. For more information call Sridhar Condoor 314-977-8444 or Angela Berring 618-258-2214.

FIND YOUR FELLOW ASME MEMBERS

ASME enables you to find other members at ASME website: <https://members.asme.org/myasme/membershipsearch/searchmembership.cfm> - With this link, you can find members of any section, technical division, or membership grade, along with name, address, email and telephone contact information shared for use in ASME society and professional affairs.



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Your Interests?

Please take a moment to complete this interest survey. Feel free to include suggestions to make the STL Section better for you. Return input to Dr. Sridhar Condoor (condoor@slu.edu) St. Louis Univ Dept of Aerospace & Mechanical Engineering, 3450 Lindell Blvd., Saint Louis, MO-63103, (314)- 977-8444.

Check your preference on each item

	Yes	Maybe	No
Cost and quality of meetings should increase	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Day of the week meetings always same day	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other

Type of Activity

Presentation with Technical Content	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plant/Facility Tour	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Meal with Tour or Presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Seminar/Continuing Education Class	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community Education/Eng Awareness	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other			

Topics of Interest

Design	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Manufacturing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analysis/Simulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product Development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Testing & Research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Facilities/Utilities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Codes & Standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enterprise/Business/Finance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Engineering/Technology History	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other			

Industry Interest

Automotive/Transportation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Defense/Aerospace	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Food & Beverage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electronic/Computer/Software	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biomedical	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power Generation/Distribution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Civil/Infrastructure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Building/Hvac	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Metals/Mining	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water/Waste Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Consumer Products/Packaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disposal/Reclamation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warehousing/Distribution/Logistics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemicals/Pulp & Paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other			

How Far Would You Travel to Meet?

0-15 Miles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15-30 Miles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30-45 Miles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other

Comments &
Suggestions

ASME STL Mail / Return Address

ASME St. Louis Section.
c/o The Engineers' Club of St. Louis
4359 Lindell Blvd.
St. Louis, MO 63108