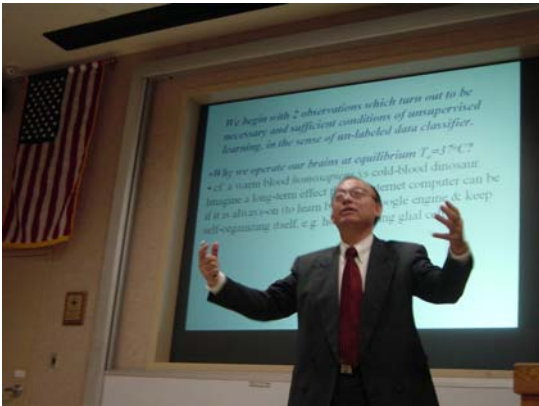


**IEEE Computational Intelligence Society St. Louis Chapter**  
*Newsletter - Spring 2005*

The IEEE CIS St. Louis chapter was approved in May/June 2004. The chapter consists of about 20 members. The chapter had four interesting and enjoyable meetings in the last six months and the first three meetings had IEEE CIS Distinguished lecturers.

The inaugural meeting of the chapter was held on October 11, 2004. Professor Harold Szu, an IEEE CIS distinguished lecturer and a Fellow of the IEEE, from Office Naval Research and George Washington University, Washington D.C, presented a lecture titled “*A Generalization of Information Theory for Real World Unsupervised Learning Computational Intelligence*”. The lecture was attended by over 40 IEEE and non-IEEE members.



*Prof. Harold Szu delivering his lecture on Power of Pairs for Learning at the IEEE CIS St. Louis Chapter*



*Left to Right: 2004 IEEE Rolla subsection President- Scott Smith, IEEE CIS Chapter Chair- Ganesh Kumar Venayagamoorthy, Distinguished Lecturer- Harold Szu and 2005 International Neural Network Society President - Donald Wunsch*

A second meeting was held on December 2, 2004 with Professor Russell Eberhart from Indiana University Purdue University Indianapolis (IUPUI), an IEEE CIS distinguished lecturer and a Fellow of the IEEE, as our speaker. He delivered his lecture titled “*Swarm Intelligence and Particle Swarm Optimization*” was attended by about 35 IEEE and non-IEEE members.



*Prof. Russell Eberhart delivering his lecture on Swarm Intelligence at the IEEE CIS St. Louis Chapter*



*Faculty and student members at Eberhart's lecture*

The first meeting of the year 2005 and third meeting of the chapter was held on February 9, 2005. Professor Mohammed El-Sharkawi, an IEEE CIS distinguished lecturer and a Fellow of the IEEE, from the University of Washington, Seattle delivered a lecture titled “*Solutions to Engineering Problems by Biologically Inspired Techniques.*” The lecture was attended by over 40 IEEE and non-IEEE members.



*Prof. Mohammed El-Sharkawi with the CIS Chapter Chair and student members*

The most recent meeting was held on March 11, 2005 with Professor Derong Liu, an IEEE Fellow. He delivered a lecture titled “Call Admissions Policies for DS-CDMA Cellular Networks Based on Power Control Setpoints”. The lecture was attended by about 35 IEEE and non-IEEE members.

In all, the new chapter had a productive 2004 year. Our goal is to continue this trend into the rest of 2005, expand our membership and interact with other professional groups and societies.

#### ***Awards/Honors***

- Professor Donald Wunsch was elected to the 2005 IEEE Fellow class for his contributions to hardware implementations, reinforcement and unsupervised learning.
- Dr. Ganesh Kumar Venayagamoorthy was awarded the 2004 IEEE St. Louis Section Outstanding Young Engineer award.

#### ***Upcoming events***

- **Elections/Nominations of Officers:** We will hold elections this fall. Send nominations for the chair, vice-chair and secretary to Dr. Ganesh Kumar Venayagamoorthy, [gkumar@ieee.org](mailto:gkumar@ieee.org), by September 1, 2005. Nominees have to be IEEE CIS members and IEEE St. Louis section members. Academic and industrial affiliated members are invited.
- **Meetings:** Distinguished lectures are planned for September and November 2005. Check the CIS St. Louis chapter website for details.
- **News:** Chapter members should email the chair with any news or announcements for inclusion in the next issue of the newsletter.

#### ***Chapter Information***

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