

CHAPTER REPORT

Name of Chapter: Greater Dayton Chapter of SID

Chapter Officers: Dr. Darrel Hopper - Director
Marvin Most - Chairman
Jim Byrd – Assistant Chairman
John Luu - Secretary
Masoud Ali – Treasurer
Fred Meyer – Program Chair

Chapter Report for the Board of Directors' Meeting: Dec 2008- May 2009

List of technical meetings:

Three technical meetings were conducted between Dec 2008 and May 2009.

December 12th, 2008. Mr Ken Orlowski of Barco and Mr Terry Rapoch of DaytaOhio presented background on the mission of DaytaOhio. The mission of DaytaOhio is to deliver solutions that improve the performance and decision making of individuals and teams by integrating human factors design with innovative visualization and computing technologies. The presentation and demonstration provided technical insight into operation of the DataWall and I-Space systems along with an impressive 3D demonstration of the equipment. The meeting was held at Joshi Research Center, Wright State University. We had 8 attendees, 7 members and 1 non-member.



Joshi Research Center, WSU.

Mar 18th 2009. The meeting was held at Panera Bread next to FairField Mall in Beavercreek, Ohio. A presentation on Real-Time Multiscopic 3D displays was provided by Stephen Kupiec from Metrolaser, Inc., of Torrence CA. He discussed a 3D display with 8 viewing zones and a 20" diagonal screen that has been developed. Design employs a high speed LCD shutter located at the pupil of the optical train synchronized with a deformable mirror device (DMD) projector, which serves as a high framerate SLM within the design allowing for the formation of

multiple viewing zones via persistence of vision. There were 8 attendees of which 7 were members and 1 was non-member.



Panera Bread, Mall at Fairfield Common, Dayton.

April 29th, 2009. Prof. Jason C. Heikenfeld & Mr. John Rudolph, University of Cincinnati provided a presentation on electrowetting technology, electrofluidic chromatophores and its applications on flexible displays such as POP displays, e-paper, adaptive chromatophores, tunable color casing, and rollable displays with high white reflection ($W > 80\%$). An article about this technology can be found on the May 2009 issue of Nature Photonics. The meeting was held at Panera Bread Community Room, near University of Dayton. We had 8 attendees, 5 members and 3 non-members.



Panera Bread, Dayton.

List of business meetings:

Two business meetings were held in conjunction with the technical meetings.

December 12th, 2008. The SIDDA meeting was held at Joshi Research Center, Wright State University after a technical presentation. The purpose of the meeting was to discuss plans for

the upcoming year. Chapter officers for 2009 term were nominated and elected. A motion was made and carried to contribute funding for prizes at two Dayton area science fairs. Six SIDDA members were present.

Mar 18, 2009. The meeting was held at Panera Bread next to FairField Mall in Beavercreek, Ohio. The purpose of the meeting was to plan for upcoming chapter technical meeting in April and upcoming SID conference in San Antonio, TX May 31 – Jun 6. Six SIDDA members were present.

Chapter's problems/remarks, if any

The Dayton Chapter provided awards totaling \$400.00 to the Montgomery County Science Fair. The awards were provided to projects focusing on human factors and information display.

The number of SID members who are actively participating in chapter's meetings in the Dayton area has declined.

Report submitted by: John Luu – Secretary, May 15, 2009