

The Eye and The Chip 2004**THURSDAY, June 24****7:45AM-4:30PM**

10AM 7:45-8:00AM	Continental Breakfast WELCOME & INTRODUCTION	Keith Cooley Chair, DIO Research Committee, Michigan
	OVERVIEW	Gerald Chader PhD The Foundation Fighting Blindness, Maryland
	<u>Moderator- Phil Troyk PhD</u> Clinical Trial of Prototype Retinal Prostheses	Mark Humayun MD PhD Doheny Retina Institute, California
8:00-8:30AM		
8:30-9:00AM	The Artificial Silicon Retina (ASR) Retinal Prosthesis: Update 2004	Alan Chow MD Optobionics, Illinois
9:00-9:30AM	Correlation of Human Psychophysical Results with In Vitro Physiological Experimentation	Joseph Rizzo MD/Ralph Jensen PhD Massachusetts Eye & Ear, Mass. Ctr. for Innovative Visual Rehab, Mass
9:30-10:00AM	BREAK	
	<u>Moderator- Joseph Rizzo MD</u> Acute Human Trials for Evaluation of Retina Implant Technical Aspects	Ralf Hornig MD IIP Technologies, Germany
10:00-10:30AM		
10:30-11:00AM	Acute Human Trial for Evaluation of Retina Implant Technology: Clinical Aspects	Gisbert Richard MD University Medical Center Hamburg, Germany
11:00-11:30AM	The Optic Nerve Approach in Case of Blindness due to Retinitis Pigmentosa	Claude Veraart ScD Universite catholique de Louvain, Belgium
11:30AM-12:00PM	Developing an Intracortical Visual Prosthesis	Phil Troyk PhD Illinois Institute of Technology, Illinois
12:00-1:00PM	LUNCH	
	<u>Moderator- Henry Kaplan MD</u> Prerequisites for Clinical Trials with Electronic Retinal Implants	Eberhart Zrenner MD University Eye Hospital, Germany
1:00-1:30PM		
1:30-2:00PM	The Ethics of Device Implantation in Humans	Phil Troyk PhD Illinois Institute of Technology, Illinois
2:00-2:30PM	TITLE TBD	James Saviola OD FDA, Maryland
2:30-3:00PM	BREAK	
	<u>Moderator- Mark Humayun MD PhD</u> Tunable Retina Encoders for Retina Implants: Why and How	Rolf Eckmiller PhD University of Bonn, Germany
3:00-3:30PM		
3:30-4:00 PM	Retinal and Cortical Prosthesis Development at the Ligon Center of Wayne State University	Raymond Iezzi MD Kresge Eye Institute, Michigan
4:00-4:30PM	An Animal Model for the Cortical Assessment of Retinal Prostheses	Nicolas Cottaris PhD/Sylvia Elfar Ph Wayne State University, Michigan

Paper presentations consist of 20 minute talk with 10 minute discussion period.

TENTATIVE DRAFT PROGRAM
The Eye and The Chip
FRIDAY, June 25
7:45AM-5:00PM

PCH/ck, 07/09/04

10AM	Continental Breakfast	
7:45-8:15AM	<u>Moderator- Gregory Auner PhD</u> Updates in Korean Retinal Implant Experiments	Sung June Kim PhD Seoul National University, Korea
8:15-8:45AM	Artificial Retina, Japanese Experience	Takashi Fujikado MD PhD Osaka University Medical School, Japan
8:45-9:15AM	Development of a Surface Visual Cortex Prosthesis and an Extraocular Retinal Prosthesis	Vivek Chowdhury MBBS University of New South Wales, Australia
9:15-9:45AM	BREAK	
9:45-10:15AM	<u>Moderator- Rolf Eckmiller PhD</u> Hexagons in Visual Prosthesis: "The Australian Retinal Stimulation Group"	Gregg Suaning PhD, Nigel Lovell PhD University of Newcastle, Australia University of New South Wales, Australia
10:15-11:00 AM	DISCUSSION	
11:00-11:30AM	TITLE TBD	Helmut Sachs MD
11:30AM-12:00PM	Subretinal Thresholds with the Harvard/MIT Microelectrode Array	Henry Kaplan MD University of Louisville, Kentucky
12:00-1:00PM	LUNCH	
1:00-1:30PM	<u>Moderator- John Wyatt PhD</u> Retinal Remodeling	Robert Marc PhD University of Utah School of Medicine, Utah
1:30-2:00PM	Neuroprotection from Subretinal Implants	Machelle Pardue PhD Atlanta VAMC, Georgia
2:00-2:30PM	Reorganization of Retinal Ganglion Cell Physiology in RD-1 Mice	Steve Stasheff MD Harvard Medical School, Massachusetts
2:30-3:00PM	BREAK	
3:00-3:30PM	<u>Moderator- Joseph Rizzo MD</u> New Advances in Wireless Implantable Neural Stimulator and Diagnostic Microsystems	Gregory Auner PhD Wayne State University, Michigan
3:30-4:00PM	Microsystems for Retinal Implants	James Weiland PhD Doheny Retina Institute, California
4:00-4:30PM	Engineering Development of Subretinal Prosthesis	John Wyatt PhD MIT, Massachusetts
4:30-5:00PM	DISCUSSION	

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TENTATIVE DRAFT PROGRAM
The Eye and The Chip
SATURDAY, June 26
8:00AM-2:45PM

PCH/ck, 07/09/04

5AM	Continental Breakfast	
8:00-8:30AM	<u>Moderator- Machele Pardue PhD</u> Optimizing Neurotronic Communication in the Eye: Subretinal Stimulation	John Hetling PhD University of Illinois at Chicago, Illinois
8:30-9:00AM	Design of the Optically-Activated High Resolution Retinal Prosthesis	Daniel Palanker PhD Stanford University, California
9:00-9:30AM	Assessment and Opinion of Charge-Injection Coatings for Visual Prostheses	Stuart Cogan PhD EIC Laboratories, Massachusetts
9:30-10:00AM	BREAK	
10:00-10:30AM	<u>Moderator- Gary Trick PhD</u> Stanford High-Resolution Neurotransmitter- Based Vision Chip System	Harvey Fishman MD PhD Stanford University School of Medicine California
10:30-11:00AM	Biocompatibility of Sub-retinal Implants	Jennifer Sun MD Massachusetts Eye & Ear, Massachusetts
11:00-11:30AM	TITLE TBD	Paul Finlayson PhD Wayne State University, Michigan
11:30AM-12:30PM	LUNCH	
12:30-1:00PM	<u>Moderator- Rolf Eckmiller PhD</u> Artificial Vision: What Are We Hoping to Restore?	Gary Trick PhD Henry Ford Health System, Michigan
1:00-1:30PM	Looking Ahead: Simulating Prosthetic Vision in Action	Gislin Dagnelie PhD Johns Hopkins University, Maryland
1:30-2:00PM	Soft, Biologically Active and Low Impedance Polymer Coatings for Interfacing Microfabricated Electronic Devices with Neurons	David Martin PhD University of Michigan, Michigan
2:00-2:15PM	SUMMARY	Joseph Rizzo MD Massachusetts Eye & Ear, Massachusetts
2:15-3:15PM	DISCUSSION	

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