

***The Eye and The Chip 2004
World Congress on Artificial Vision***
took place on June 24-26, 2004
at the Westin Hotel in Detroit.

The Eye and The Chip 2004 DVD set is now available!

The set includes four DVD's of the World Congress held on June 24-26, 2004 at the Westin, Detroit Metropolitan Airport.

The Eye and The Chip 2004

THURSDAY, June 24

7:45AM-4:30PM

7:00AM 7:45-8:00AM	Continental Breakfast WELCOME & INTRODUCTION	Keith Cooley Chair, DIO Research Committee, Michigan Gerald Chader PhD The Foundation Fighting Blindness, Maryland
	OVERVIEW	
	Moderator- Phil Troyk PhD	
8:00-8:30AM	Clinical Trial of Prototype Retinal Prostheses	Mark Humayun MD PhD Doheny Retina Institute, California
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	
	Moderator- Joseph Rizzo MD	
10:00-10:30AM	Acute Human Trials for Evaluation of Retina Implant Technical Aspects	Ralf Hornig MD IIP Technologies, Germany
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	
	Moderator- Henry Kaplan MD	
1:00-1:30PM	Prerequisites for Clinical Trials with Electronic Retinal Implants	Eberhart Zrenner MD University Eye Hospital, Germany
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	
	Moderator- Mark Humayun MD PhD	
3:00-3:30PM	Tunable Retina Encoders for Retina Implants: Why and How	Rolf Eckmiller PhD University of Bonn, Germany
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 PhD Wayne State University, Michigan

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

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FRIDAY, June 25

7:45AM-5:00PM

7:00AM	Continental Breakfast Moderator- Gregory Auner PhD	
7:45-8:15AM	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, Japa
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 Moderator- Rolf Eckmiller PhD	
9:45-10:15AM	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	
11:30AM-12:00PM	Subretinal Thresholds with the Harvard/MIT Microelectrode Array	Helmut Sachs MD Henry Kaplan MD University of Louisville, Kentucky
12:00-1:00PM	LUNCH	
1:00-1:30PM	Moderator- John Wyatt PhD 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, Massachuset
2:30-3:00PM	BREAK	
3:00-3:30PM	Moderator- Joseph Rizzo MD 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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SATURDAY, June 26

8:00AM-2:45PM

7:45AM	Continental Breakfast Moderator- Machele Pardue PhD	
8:00-8:30AM	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	Moderator- Gary Trick PhD 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	Moderator- Rolf Eckmiller PhD 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	