

The Eye and The Chip: World Congress on Artificial Vision**Thursday, June 6, 2002****7:45am-5:00pm**

<u>Introduction</u>		<u>FACULTY</u>	<u>STATUS</u>
7:45am	Welcome: Keith Cooley, Chair, Research Committee, Detroit Institute of Ophthalmology Charles Chambers PhD, President, Lawrence Technological University Moderator: Philip C Hessburg MD		
A. 8:00-8:30am*	The Ultimate Synthetic Retina	David Miller MD, Boston MA <i>Harvard School of Medicine</i>	CONFIRMED
B. 8:30-9:00am	Neural Substrate for Visual Prosthesis	Alan Laties MD, Philadelphia PA <i>University of Pennsylvania School of Med</i>	CONFIRMED
<u>A Very Different Approach</u>			
	Moderator: David Miller MD		
C. 9:00-9:30 am	Photophysics of Neural Cells and Artificial Sight	Tanya Kuritz PhD, Oak Ridge TN <i>Oak Ridge National Lab</i>	CONFIRMED
D. 9:30-10:00am	Break		
<u>Assaying Retinal and Cortical Function</u>			
	Moderator: David Miller MD		
E. 10:00-10:30 am	Technical Methods of Acuity Assay	Gary Trick PhD, Detroit MI <i>Henry Ford Health System</i>	CONFIRMED
F. 10:30-11:00am	Evaluating Visual Function Improvements in People with Moderately to Severely Impaired Vision	Ron Schuchard PhD, Decatur GA <i>VA Med Center Atlanta</i>	CONFIRMED
G. 11:00-11:30 am	Cortically Based Artificial Vision: Systems and Science	Richard Normann PhD, Salt Lake City UT <i>University of Utah</i>	CONFIRMED
H. 11:30am-12:00pm	Discussion		
I. 12:00-1:00pm	Lunch		
<u>Animal vs. Human Testing</u>			
	Moderator: Joseph Rizzo MD		
J. 1:00-1:30pm	Test Technology for Learning Retina Implants in Humans and Non-Human Primates	Rolf Eckmiller PhD, Bonn Germany <i>University of Bonn</i>	CONFIRMED
K. 1:30-2:00pm	Animal vs. Human Testing (Should Human Testing Be Done?) <u>AN OPEN DISCUSSION</u>	Phil Troyk PhD, Chicago IL <i>Illinois Institute of Technology</i> Joseph Rizzo MD, Boston MA <i>Harvard School of Medicine & MIT</i>	CONFIRMED
L. 2:00-2:30pm	The Stanford Experience (The Artificial Synapse Chip: A Novel Interface for a Retinal Prosthesis based on Neurotransmitter Stimulation and Nerve Regeneration)	Ted Leng, Mountain View CA <i>Stanford University School of Medicine</i>	CONFIRMED
M. 2:30-3:00pm	Break		
<u>Business and Governmental Considerations</u>			
	Moderator: Michael Trese MD		
N. 3:00-3:30pm	Neural Prostheses for the Central Nervous System	William Heetderks MD PhD, Bethesda MD <i>NINDS, NIH</i>	CONFIRMED
O. 3:30-4:00pm	The Role of FDA in Ophthalmic Device Regulation	James Saviola OD, Rockville MD <i>Center for Devices and Radiological Health</i>	CONFIRMED
P. 4:00-4:30pm	The Worldwide Neuro-Prosthetic Device Patent Portfolio- Patenting Process	Gosia Kulczycka PhD, Detroit MI <i>General Motors Corporation</i>	CONFIRMED
Q. 4:30-5:00pm	Discussion	Philip C Hessburg MD	

*20 presentations followed by a 10 discussion. Formatted for 17 Periods (12 Speakers, 2 Discussion Periods, 3 Breaks).

The Eye and The Chip: World Congress on Artificial Vision**Friday, June 7, 2002****8:00am-5:00pm****Financing the Artificial Vision Effort**

		<u>FACULTY</u>	<u>STATUS</u>
R. 8:00-8:30am*	<i>Moderator: Anne Nachazel MD</i> American Capital Acquisition	Chuck Mosher, Keene NH <i>NuVue Technologies</i>	CONFIRMED
S. 8:30-9:00am	Learning Retina Implants: Development, Marketing, & IP-Management- A European Perspective	Steffen Suchert, Esq, Bonn Germany <i>Intelligent Implants Corporation</i>	CONFIRMED
T. 9:00-9:30am	The Challenge of Nidek Vision Institute	Tohru Yagi PhD, Japan <i>Nidek Technologies Inc</i>	CONFIRMED
U. 9:30-10:00am	Break		

Retinal Group Reports

V. 10:00-10:30am	<i>Moderator: Eugene Goldberg MD</i> The Artificial Silicon Retina: First Clinic Trials	Alan Chow MD, Chicago IL <i>Optobionics Corporation</i>	CONFIRMED
W. 10:30-11:00am	Subretinal Implant Experience (Germany)	Eberhart Zrenner MD, Tübingen Germany <i>University of Tübingen</i>	CONFIRMED
X. 11:00-11:30am	Update on the Second Sight Retinal Prosthesis Program	Robert Greenberg MD PhD, Valencia CA <i>Second Sight Inc</i>	CONFIRMED
Y. 11:30am-12:00pm	Discussion		
Z. 12:00-1:00pm	Lunch		

Retinal Group Reports

AA. 1:00-1:30pm	<i>Moderator: George Williams MD</i> Epiretinal Implant Experience (USA) (Update on Human Experimentation)	Eugene deJuan Jr MD, Los Angeles CA <i>University of Southern California</i> (talk will be given by James Weiland PhD)	CONFIRMED
BB. 1:30- 2:00pm	Epiretinal Implant Experience (USA)	Joseph Rizzo MD, Boston MA <i>Harvard School of Medicine & MIT</i>	CONFIRMED
CC. 2:00-2:30pm	Epiretinal Implant Experience (USA)	Ray Iezzi MD, Detroit MI <i>Kresge Eye Institute</i>	CONFIRMED
DD. 2:30-3:00pm	Break		

Cortical Implants

EE. 3:00-3:30pm	<i>Moderator: Eugene Goldberg PhD</i> Using Simulations to Explore the Properties of Prosthetic Vision	Gislin Dagnelie PhD, Baltimore MD <i>Johns Hopkins School of Medicine</i>	CONFIRMED
FF. 3:30-4:00pm	Developing an Intracortical Visual Prosthesis	Phil Troyk PhD, Chicago IL <i>Illinois Institute of Technology</i>	CONFIRMED
FF. 4:00-4:30pm	Biocompatibility Issues for Cortical Implants	Pat McAllister PhD, Detroit MI <i>Wayne State University School of Medicine</i>	CONFIRMED
GG. 4:30-5:00pm	Discussion & Wrap-Up	Philip C Hessburg MD	

***20 presentations followed by a 10 discussion. Formatted for 17 Periods (12 Speakers, 2 Discussion Periods, 3 Breaks)**

The Eye and The Chip: World Congress on Artificial Vision**Saturday, June 8, 2002****8:00am-4:30pm**

<u>Surgical Techniques</u>		<u>FACULTY</u>	<u>STATUS</u>
HH. 8:00-8:30am*	<i>Moderator: Joseph Rizzo MD</i> Retinal Implant Surgical Technique	Heinrich Gerding MD, Munster Germany <i>University Eye Clinic</i>	CONFIRMED
II. 8:30-9:00am	Retinal Implant Surgical Technique	John Loewenstein MD, Boston MA <i>Harvard School of Medicine</i>	CONFIRMED
JJ. 9:00-9:30am	Animal Models of Hereditary Retinal Degeneration	Gregory Acland PhD, Ithaca NY <i>Cornell University</i>	CONFIRMED
KK. 9:30-10:00am	Break		
<u>New Research Efforts</u>			
LL. 10:00-10:30am	<i>Moderator: Janet Blanks PhD</i> The Australian Experience: Vision Prostheses	Gregg Suaning PhD, Australia <i>University of Newcastle</i> Nigel Lovell PhD <i>University of New South Wales</i>	CONFIRMED
MM. 10:30-11:00am	Retinal Prosthesis Chip Design Issues	Wentai Liu PhD, Raleigh NC <i>North Carolina State University</i>	CONFIRMED
NN. 11:00-11:30am	The Korean Experience: Development of Polyimide Photodiode Electrode Array System For Laser Signaling Retinal Prosthesis	Hum Chung MD, Seoul Korea <i>Seoul National University</i>	CONFIRMED
OO. 11:30am-12:00pm	Discussion		
PP. 12:00-12:45pm	Lunch		
<u>Nanoelectronic Advances</u>			
QQ. 12:45-1:15pm	<i>Moderator: Greg Auner PhD</i> Molecular Electronics- Chips Smaller Than Cells	Philip Kuekes, Palo Alto CA <i>Hewlett-Packard Laboratories</i>	CONFIRMED
RR. 1:15-1:45pm	Development of Ceramic Optical Microdetectors for Implantation	Alex Ignatiev PhD, Houston TX <i>University of Houston</i> Charles Garcia MD, Houston TX <i>University of Houston</i>	CONFIRMED
SS. 1:45-2:15pm	Advances in Chip Development	Gregory Auner PhD, Detroit MI <i>Wayne State University, Dept of Engineering</i>	CONFIRMED
TT. 2:15-2:30pm	Break		
<u>Significant Technical Issues</u>			
UU. 2:30-3:00pm	<i>Moderator: Gary Trick PhD</i> Electromagnetic & Thermal Considerations	Gianluca Lazzi PhD, Raleigh NC <i>North Carolina State University</i>	CONFIRMED
VV. 3:00-3:30pm	Ophthalmic Biomaterials: Properties Affecting Function & Stability of Implants Designed for Retinal Repair or Replacement	Eugene Goldberg MD PhD, Gainesville FL <i>University of Florida, Biomaterials Research Center</i>	CONFIRMED
WW. 3:30-4:00pm	General Discussion, How are we doing?	Joseph Rizzo MD, Boston MA <i>Harvard School of Medicine</i> Keith Cooley, Philip C Hessburg MD	CONFIRMED
<u>Conclusions</u>			

***20 presentations followed by a 10 discussion. Formatted for 16 Periods (12 Speakers, 1 Discussion Period, 3 Breaks)**