

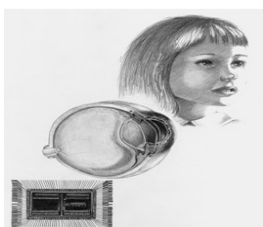
The Eye and The Chip Summary Statement

Joseph Rizzo, MD

Harvard Medical School, Mass. Institute of Technology, Boston, MA

“ At the time of our first *Eye and The Chip* Meeting, now many years ago, the field of visual prosthetics was still in its infancy. The research community generally held a very skeptical attitude about the possible use of a bio-electronic implant to restore vision, despite the great success of cochlear implants. Over the last two decades our field has matured dramatically, and now there is widespread optimism about the potential for visual implants to help patients who are blind. The marked improvement in our status as a field is the result of excellent research from a large critical mass of scientists from throughout the world. It is the general opinion of researchers in our field that *The Eye and The Chip* Meeting has provided the most vibrant source of scientific exchange for our field.

The reasons for the success of this meeting relate to the fact that the meeting is devoted to a single topic, it is all inclusive (anyone who is performing credible research in the field is invited to participate) and it provides a very substantial amount of time for open group discussions. These attributes expand the length of the meeting, which I understand increases the cost of the meeting, but the benefits have been remarkable for our field. Simply stated, ‘*The Eye and the Chip* meeting provides the best venue for scientific and academic exchange in the world for the field of visual prosthetics.’”



To Register Contact:

313-824-4710

or clbarth@dioeyes.org

Registration Fee:

\$400/ three-days, (includes congress sessions and materials, breakfast, lunch, and Memory Stick of sessions),

\$140/day (includes all of the above, but not Memory Stick of sessions)

The Eye and The Chip 2012

A three-day world congress to accelerate progress toward “artificial vision” by providing a format for exchange of scientific advances among internationally recognized experts.

CONGRESS OBJECTIVES:

At the end of the 7th *The Eye and The Chip* World Research Congress the lead research presenters and attendees will:

- **Have a clear understanding of which blind patients will eventually benefit from a visual neuro-prosthetic device;**
- **Be fully aware of which patients will benefit from a device within the eye, and which blind patients will be benefitted only by a device interfacing directly with the visual cortex of the brain;**
- **View the development process of a complex medical device, and will recognize the role played by the US FDA in bringing forth safe and effective medical devices for the American public.**

TARGET AUDIENCE:

Bioengineers, Biomaterials Researchers, Corporate Regulatory Officials, Electrical & Electronic Engineers, Journalists, Medical Device Representatives, Nanotechnologists, Neuro-anatomists, Neuro-pathologists, Neuro-radiologists, Neurologists, Neurosurgeons, Neurophysiologists, Ophthalmologists, Optometrists, the Blind Community, the Interested Public, the Press, Visual Physiologists, Venture Capitalists,

SPONSORSHIP OPPORTUNITIES:

Available for 2012

**Contact: Carolyn L, Barth, PhD
Congress Administrative Director
clbarth@dioeyes.org**

313-824-4710

2010 Panelists The Eye and The Chip International Research Congress On Artificial Vision

Gregory Auner, PhD, Biomedical Engineering, Wayne State University, Detroit, MI

Anthony Burkitt, PhD, The Univ. of Melbourne, Melbourne, Australia
Eduardo Chichilnisky, PhD, The Salk Institute for Biological Studies, La Jolla, CA

Stuart F. Cogan, ScD, Advanced Materials Research, EIC Laboratories, Norwood, MA

Ethan Cohen, PhD, Center for Devices and Radiological Health, US FDA, White Oak, MD

Gislin Dagnelie, PhD, Johns Hopkins Univ. School of Medicine, Baltimore, MD

Patrick Degenaar, PhD, Imperial College, London, UK

Rolf Eckmiller, PhD, Dept. of Computer Science, Univ. of Bonn, Bonn, Germany

Eduardo Fernandez, MD, PhD, University Miguel Hernandez, Bioengineering Institute, Spain

Shelley Fried, PhD, Boston Retinal Implant Project, Boston VA Medical Center, Boston, MA

Yongsook Goo, MD, PhD, Chungbuk National Univ. School of Med., South Korea

Robert Greenberg, MD, PhD, Second Sight, Sylmar, CA

Raymond Iezzi, MD, MS, Mayo School of Med. Rochester, MN

Ralph Jensen, PhD, VA Boston Healthcare System, Boston, MA

Sung June Kim, PhD, Seoul National University, Seoul, Korea

Frank Lane, PhD, Illinois Instit. of Tech., Chicago, IL

Bernard P. Lepri, OD, MS, MEd, US FDA, Silver Spring, MD

Nigel Lovell, PhD, University of New South Wales, Sydney, Australia

Douglas McCreery, PhD, Huntington Medical Research Institutes, Pasadena, CA

Brian Mech, PhD, MBA, Second Sight, Sylmar, CA

Richard Normann, PhD, University of Utah, Salt Lake City, UT

Daniel Palanker, PhD, Stanford University, Stanford, CA

John Pezaris, PhD, Mass. Gen. Hospital, Boston, MA

Qiushi Ren, PhD, Shanghai Jiao-Tong University, Shanghai, China

Gisbert Richard, MD, Univ. Med. Center Hamburg-Eppendorf, Hamburg, Germany

Joseph Rizzo, MD, Harvard Medical School, Mass. Institute of Technology, Boston, MA

Stephen Stasheff, MD, PhD, Univ. of Iowa Children's Hosp., Iowa City, IA

Gregg Suaning, PhD, University of New South Wales, Sydney, Australia

Yasuo Terasawa, PhD, Vision Institute, Nidek Co., Ltd, Aichi, Japan

Philip R. Troyk, PhD, Illinois Institute of Technology, Chicago, IL

Peter Walter, MD, Universitäts-Augenklinik, Aachen, Germany

James Weiland, PhD, Univ. of Southern California, Los Angeles, CA

Walter G. Wrobel, PhD, Retinal Implant AG, Reutlingen, Germany

John Wyatt, PhD, Mass. Institute of Technology, Boston, MA

Eberhart Zrenner, MD, University of Tubingen, Tubingen, Germany

Program Directors:

Edward R O'Malley, MD

Chairman, Research Committee
Board of Directors, Detroit Institute of Ophthalmology
Chief Medical Officer, Henry Ford Cottage Hospital

eromalley@comcast.net

Joseph F Rizzo, MD

Harvard Medical School
Massachusetts Institute of Technology
Massachusetts Eye & Ear Infirmary
Joseph_Rizzo@meei.harvard.edu

Philip C Hessburg, MD

President, Detroit Institute of Ophthalmology
pchessburg@dioeyes.org



Thank You to Our 2010 Sponsors:

Alcon

Alliance for Vision Research, Inc.

**Detroit Institute of Ophthalmology,
Board of Directors**

Friends of Vision

Higher Education Publications, Inc.

IMRA

Jedmed

Leica

Macular Degeneration Foundation

Michigan Ophthalmic Personnel Society

Nidek

Oliver Dewey Marcks Foundation

Kim and Ron Wagner

Visual Prosthetics
Physiology, Bioengineering,
Rehabilitation, Springer, 2011

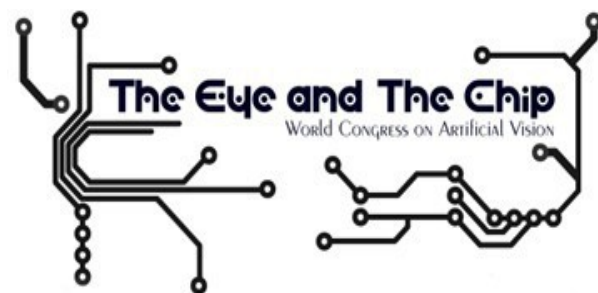
Gislin Dagnelie, PhD, Editor
Johns Hopkins University
School of Medicine,
Baltimore, MD

"In the year 2000, the Detroit Institute of Ophthalmology had the inspiration to foster a new collaboration among visual prosthesis researchers, clinicians, and workers in low vision rehabilitation by creating and sponsoring a series of biennial meetings called "*The Eye and The Chip*." Successful beyond expectations, these meetings have become the premier gathering place for researchers from all parts of the world and from very different backgrounds. Invited speakers are scientists who are advancing the field, yet the scale and atmosphere allow all researchers, patients, and the media to come and be updated about progress over the past 2 years. More perhaps than at other scientific meetings, where investigators tend to gather within disciplines, participants at *The Eye and The Chip* are challenged to be open-minded, learn about and critique each other's work, and return home with fresh ideas or interdisciplinary approaches."



**THE
DETROIT INSTITUTE OF
OPHTHALMOLOGY**

PRESENTS



**The 7th Biennial
Congress
on
Artificial Vision**

**Sunday, September 9, 2012
Monday September 10, 2012
Tuesday, September 11, 2012**

**Renaissance Conference Center
GM Renaissance Center
300 Renaissance Center, Level 2
Detroit, MI 48243**

WHY ATTEND?

**Collegiality facilitates collaboration,
collaboration accelerates progress!**

The Eye and The Chip is a great meeting. It is the best in the field. There is nothing to improve.
Eberhart Zrenner, Prof, Dr. Med., University Eye Hospital, Tuebingen, Germany

The Detroit meeting was definitely the best and most useful retinal implant meeting of the year. You have contributed so much to the field.

John L. Wyatt, Jr, PhD
Professor of Electrical Engineering, MIT, Cambridge, MA

The Detroit event is the premier meeting for those researchers and developers in the field of retinal or cortical prosthetics. The meeting will bring the leaders of the field together in a format that encourages discussion on leading-edge development.

Michigan Small Tech Journal
Michigan ESA

The congress was most beneficial. It was a great experience to meet so many excellent researchers involved in artificial vision.

Sirkka-Liisa Rudanko
Finnish Federation of the Visually Impaired, Finland

The scientific program (at *The Eye and The Chip*) was outstanding with representatives from every major visual prosthetic group in the world in attendance. The 20-minute slots allowed sufficient time for each group to present their recent advances: the adherence to the schedule provided adequate time for questioning from the audience. The mix of clinical, biological and engineering talks allowed everyone to get a comprehensive overview of the diverse challenges associated with this project. Well done.

Shelley Fried, PhD
Boston Retinal Implant Project, Boston MA

The Eye and The Chip has been instrumental in us moving forward and securing funding. It also allowed us to form some marvelous collaborations and exchanges. We have a joint project with Dr. Jong-Mo Seo from Korea on surgical approaches and electrode manufacture. Also Dr. Robert Wilke from Professor Zrenner's group in Tubingen has come to Australia for the next few years to work on mathematical models and in vitro experiments to better understand electrical stimulation of the retina.

I believe that *Eye and Chip 2006* was expertly run. The spirit of scientific collaboration and open debate that underpins the congress is a great contributor to collectively producing a therapeutic device.

Nigel Lovell, PhD
University New South Wales, Australia

The scientific exchange, the spirit of cooperation and determination to make progress, and the social environment at this unique conference: *The Eye and The Chip 2006* have been excellent. You and your team have basically invented a novel structure and environment to make scientists from different fields feel at ease so that they begin to think and communicate as a team. The desperately waiting blind individuals will be grateful to you.

Rolf Eckmiller, PhD
University of Bonn, Bonn, Germany
