



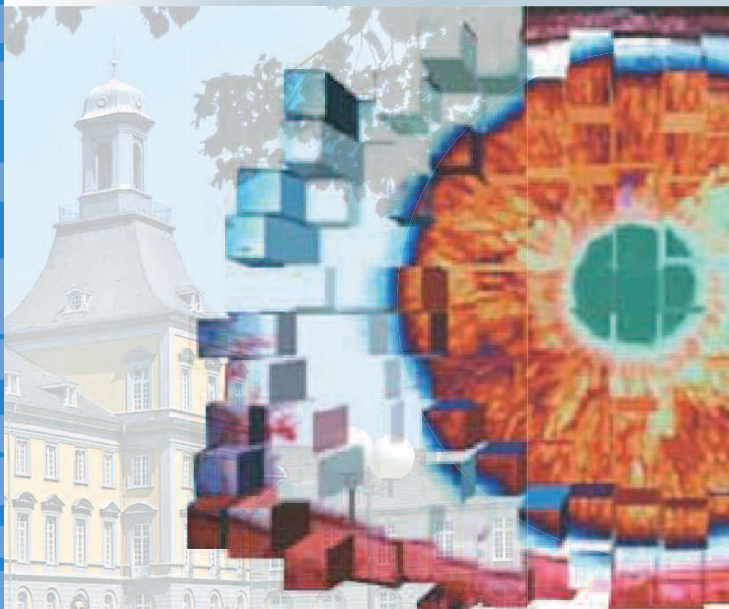
Artificial Vision

The 2nd Bonn Dialogue

The International Symposium
on Visual Prosthesis

19th September 2009

in **Bonn** (Germany)



www.artificial-vision.net

FINAL PROGRAM



Artificial Vision 2009 – The 2nd Bonn Dialogue

Dear Colleagues and Friends!

It is my pleasure to welcome you to the 2nd International Symposium on Artificial Vision – the Bonn Dialogue.

The symposium is organized by the German Retinal Implant Foundation, a foundation supporting scientific exchange and research in the growing area of retinal prosthesis, by Pro Retina, the German RP patient organization, and supported by the German Research Council (DFG). The goal of the symposium is to bring together researchers and to provide a floor for lively discussions and the exchange of facts, ideas, and perspectives. Heinz Wässle from the Max Planck Institute for Brain Research in Frankfurt/Main accepted our invitation to give us a keynote lecture on an alternative and more biological path to recover visual function in blindness causing diseases.

When Mark Humayun and Eugene de Juan presented a video where a blind subject reported phosphenes upon electrical stimulation of the retinal surface, not many opinion leaders thought that some years later retinal implants are successfully evaluated within prospective clinical trials. At that time a door was opened, many solutions were provided, many new questions came up, more groups joined the community and today visual prosthesis research and development is a still growing field. Interdisciplinarity, cooperation between companies, academia based labs, and clinics, the participation of the patient groups and the enthusiasm of individuals are only a few spotlights characterizing this fascinating area.

The symposium covers major basic science aspects of artificial vision, it will provide an overview on projects which are in a preclinical state, and it will summarize the results from clinical trials. I am sure that you will enjoy great presentations and lectures as well as lively discussions.

Welcome to the Bonn Dialogue.

Peter Walter, M.D.

Professor of Ophthalmology
on behalf of the Programme Committee

Hosts:

The Retina Implant Foundation

www.stiftung-retina-implant.de

PRO RETINA – Foundation preventing Blindness

www.pro-retina.de

Scientific Management:

Prof. Dr. Peter Walter

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Organisation:

Congress-Organisation Gerling GmbH

Werftstraße 23, 40549 Duesseldorf, Germany

Phone: (+49) 2 11 / 59 22 44, Fax: (+49) 2 11 / 59 35 60

E-Mail: info@congresse.de, Internet: www.congresse.de

Website / Online registration:

www.artificial-vision.net

Information hotline

(+49) 2 11 / 59 22 44

Venue:

Wissenschaftszentrum Bonn

Ahrstraße 45, 53175 Bonn, Germany

**Room:**

K1/K2

Registration:

Saturday, 19th September 2009 07.45 – 18.45

Symposium:

Saturday, 19th September 2009 08.45 – 18.45

Official Language:

English (no simultaneous translation)

Participation fees:

	Artificial Vision 2009 Saturday lunch included
Regular	€ 75,-
Student*, Patient	€ 30,-

Incl. VAT, excl. foreign transfer fees

**) certification required. This has to be enclosed with the registration form or faxed to (+49) 2 11 / 59 35 60; otherwise the regular fee will be charged.*

Remittance of fees:

Invoice payable upon receipt into bank account

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Please use the enclosed hotel registration form for your hotel reservation.

Errors, misprints and typographical errors excepted.

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credits:

Hinweis
für deutsche
Teilnehmer:

Location
Map:

The Artificial Vision Meeting 2009 will be certified as a further education diploma according to after the guidelines of the German Medical Association.

Bitte vergessen Sie Ihre EFN-Nummer (Einheitliche Fortbildungs-Nummer / Barcodeaufkleber) für die Zuteilung der Fortbildungszertifizierungspunkte nicht!



Bonn can be reached easily by plane via the airports Cologne-Bonn or Frankfurt. You may also take the InterCity highspeed trains ICE to the station Siegburg/Bonn.

From the Airport Cologne-Bonn to Bonn Main Station:

Bus No. SB60

From the ICE Station Siegburg / Bonn to Bonn Main Station:

Underground train U 66 ("Telekom-Express")

From Bonn Main Station to the Wissenschaftszentrum:

Underground trains U 16 and 63 to the station
"Hochkreuz / Deutsches Museum Bonn"

Bus No. 610 to the stop "Kennedyallee"

Bus No. 631 to the stop "Ahrstraße / Deutsches Museum Bonn"

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Saturday, 19th September 2009

Welcome Session

08.45

Welcome Addresses



Bernd Kirchhof (Köln, Germany - Retina Implant Foundation)

09.40

Helma Gussek (Bonn, Germany - Retina Implant Foundation - Pro Retina Foundation)

09.00

Heinrich Gerding (Olten, Switzerland)



A Brief Review on the History of Electrical Stimulation of the Human Eye

Keynote Lecture

09.10

Heinz Wässle (Frankfurt/Main, Germany)



Molecular and genetic approaches to restore photosensitivity in retinal degeneration

09.40



Basic Research

10.40

09.40

Robert Marc (Salt Lake City, USA)



The dynamics of retinal degeneration

10.00

Shelley Fried (Boston, USA)



The distribution of voltage across the proximal axon underlies spike initiation in response to electric stimulation of retinal ganglion cells

10.20

Nicolas Cottaris (Detroit, USA)



Cortical assessment of retinal prosthetic stimulation

10.40



Coffee Break

11.15

11.15

Rolf E. Eckmiller (Bonn, Germany)

Learning of Image Encoding

11.35

Gislin Dagnelie (Baltimore, USA)

Simulation of Artificial Vision



11.55



Preclinical Development of Systems I

13.15

11.55



Daniel Palanker (Stanford, USA)
High Resolution Photovoltaic Retinal Prosthesis

12.15



Shawn K. Kelly (Cambridge, USA)
The MIT Visual Prosthesis Project

12.35



Gregg J. Suaning (Sydney, Australia)
The Australian Visual Prosthesis Project

12.55



Vernon L. Towle (Chicago, USA)
The Cortical Prosthesis

13.15



Lunch

14.25

14.25



Welcome Address

14.30

Renate Reymann (Berlin, Germany)
*President of the German Federation
of Blind and Visually Impaired People*

14.30



Preclinical Development of Systems II

16.10

14.30



Raymond Iezzi (Rochester, USA)
Multichannel Neurotransmitter based Prosthesis

14.50



Hum Chung (Seoul, South Korea)
The Seoul Visual Prosthesis Project

15.10



Qiushi Ren (Beijing, China)
The C-Sight Project

15.30



Yasuo Terasawa (Gamagori, Japan)
A visual prosthesis based on suprachoroidal-transretinal stimulation

15.50



Heinrich Gerding (Olten, Switzerland)
The MiRi Project

16.10



Coffee Break

16.40

16.40



17.40

Clinical Trials

16.40



Greg Cosendai, R. Greenberg (Sylmar, USA)
The Second Sight ARGUS Trials

16.55



Ralf Hornig¹, Gisbert Richard² (¹Bonn, ²Hamburg, Germany)
The IMI Trials

17.10



Eberhart Zrenner (Tübingen, Germany)
Blind Retinitis Pigmentosa patients can read letters and combine them to words

17.25



Peter Walter¹, Wilfried Mokwa¹, U. Thomas²
(¹Aachen, ²Giessen, Germany)
The EPIRET Trial

17.40



18.40

Free Communications, Perspectives, Ideas

17.40



Jun Ohta (Nara, Japan)
Light controlled retinal stimulator for large number of electrodes

17.50



Thomas Schanze (Giessen, Germany)
Neurophysics of retinal visual prostheses

18.00



Thomas Laube (Düsseldorf, Germany)
Long term activation and functionality of an epiretinal prosthesis in the Göttingen micropig

18.10



Michaela Velikay-Parel (Graz, Austria)
Mobility testing and its repeatability in RP Patients with profound visual impairment: Learning effects, coping strategies and other influencing factors

18.20



Walter-Gerhard Wrobel (Reutlingen, Germany)
Active subretinal implants: Design, functionality and operational experience

18.30



Ákos Kusnyerik (Budapest, Hungary)
Results of the preoperative planning procedure in subretinal prosthesis implantation

18.40

Closing Remarks

Peter Walter (Aachen, Germany)

(Stamp)

Please
prepay

Final Program

RÜCKANTWORT

Congress-
Organisation
Gerling GmbH
Werftstraße 23

40549 Düsseldorf
DEUTSCHLAND

Artificial Vision

The 2nd Bonn Dialogue

19th September 2009
in Bonn (Germany)

Title	Mr./Mrs.	Name	First name
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Institute			
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Institute address			
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ZIP code	Town	Country	
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Fax	Phone		
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Date	Signature		
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I'm a (please don't forget to tick)

- Regular
 Student*, Patient

(*Certification required with this announcement)

I register **definitely** for
Artificial Vision/The 2nd Bonn Dialogue

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Important NOTE for creditcard payment: Please use an envelope for your own security

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Arrival date:

Departure date:

MARITIM Hotel Bonn****

www.maritim.de

(1,5 km to the congress venue)

SR: 117,- EUR DR: 164,- EUR

incl. breakfast buffet

Cancellation deadline: 30th August 2009

Please tick:

- Single room (SR)
 Double room (DR)

Special requests:

Service and VAT (value added tax) are included in the room rate. The rooms will be confirmed by Congress-Organisation Gerling GmbH, Duesseldorf, in order of their receipt. To guarantee your requested hotel, reservations should be made as soon as possible. Please do not reserve your hotel by phone. For cancellation and/or rebooking after confirmation an administration charge of € 17.00 will be made. In case of cancellation of the hotel reservation or if the participation is partly or fully cancelled after the indicated deadline Congress- Organisation Gerling GmbH reserves the right to charge up to 100% of the agreed accommodation price.


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