Welcome

Welcome to the 2012 Meeting of the Glaucoma Research Society in Würzburg. Many of us participated in the last GRS Meeting in Kyoto, Japan 2010, under a new format with focused discussions of selected important glaucoma subjects. We are convening this year in Würzburg, a 400 year old University town where Conrad W. Roentgen discovered X-rays and Rudolf Virchow developed the field of cellular pathology. The University Eye Hospital, founded in 1857, has a long tradition of excellent glaucoma care and research. Albrecht von Graefe was a frequent visitor during its early decades.

The Program Committee, chaired by Claude Burgoyne, has designed a series of informal discussions and exchange of science and ideas around topics selected as the most interesting and topical ones in the field. Invited speakers will give 10 minute introductions of a subject followed by discussion by a selected panel with audience participation actively encouraged. The extensive time for discussion sets this meeting apart from most that we attend. Moderators will facilitate questions from the audience to the speakers during their talks.

The Meeting will begin with our traditional welcoming reception on Wednesday, September 5, and the Scientific Conference will fill the three following days, concluding with a Gala Dinner on Saturday, September 8, 2012. Two Goldmann lectures will be included into the program, delivered by Elke Lütjen-Drecoll (Erlangen, Germany) and Paul Kaufman (Madison WI, USA) heading the respective scientific sessions. Our newly elected members will present or will participate as selected discussants so that we can get to know them better.

The GRS Meeting 2012 promises to be an exciting and interesting occasion for exchanging ideas and staying with friends.

We really hope you will enjoy the Meeting and Würzburg atmosphere.
Executive Committee

President
Harry A. Quigley

President Elect
Franz Grehn

Secretary
Anja Tuulonen

Treasurer
Ray LeBlanc

Membership Committee Chair
Lee Alward

Program Committee Chair
Claude Burgoyne

Members-at-large
Anne Coleman
David Garway-Heath
Hidenobu Tanihara
## TIME TABLE

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**SESSION I**
- Neuroprotection and neuroregeneration - New targets and strategies
  - Coffee break

**SESSION II**
- Sclera, Lamina and CSF in myopia and glaucoma
  - Coffee break

**SESSION III**
- Targeting aqueous outflow in glaucoma
  - Coffee break

**SESSION IV**
- Safe and effective surgery in the developed and developing world

**SESSION X**
- New member talks

**SESSION XI**
- The nature of age as a risk factor in glaucoma
  - Coffee break

**Lunch**

**Business Meeting**

**Afternoon Tour Sept 7**
- Sept 7 Dinner included
WEDNESDAY, SEPTEMBER 5

14.00  EXECUTIVE MEETING
       (location: Augenklinik Bibliothek)

17.00

19.00 - 21.00
RECEPTION AT FESTUNG MARIENBERG

THURSDAY, SEPTEMBER 6

8.30  WELCOME AND MEETING OVERVIEW
     Harry Quigley, Franz Grehn, Claude Burgoyne

8.35  SESSION I
8.35  BETTER USE OF CLINICAL TRIAL DATA
     Moderators: Anne Coleman and Ted Garway-Heath
     Discussants: Jack Cioffi and Norbert Pfeiffer
8.35  Is data sufficiently generalizable - should we data mine - Ted Garway-Heath
8.45  Discussion
8.55  Benefit/use of registries in research - Anne Coleman
9.05  Discussion
9.15  Better predictors of patients at risk for rapid progression - Joe Caprioli
9.25  Discussion
9.35  Better IOP data - Rohit Varma
9.45  Discussion
9.55  Better structure function correlations - Joe Caprioli
10.05 Discussion
10.15 Can we better assess quality of life outcomes? - Felipe Medeiros
10.25 Discussion
10.35 Coffee break
11.00

11.00 SESSION II
12.30 EXPLORING THE FUNDAMENTALS OF PRIMARY ANGLE CLOSURE
     Moderators: Tin Aung and Paul Foster
     Discussants: Ravi Thomas and Lingam Vijaya
11.00 Identifying pathogenic factors for angle closure in individuals - David Friedman
11.10 Discussion
11.20 What does primary angle closure lead to? Clinical classification - Paul Foster
11.30 Discussion
11.40 Management protocols for primary angle closure disease - Garudadri Chandra Sekhar
11.50 Discussion
12.00 Breaking news in the genetics of angle closure glaucoma - Tin Aung
12.10 Discussion
12.20 Additional Session Discussion
12.30 Lunch
13.30
THURSDAY, SEPTEMBER 6

13.30    GOLDMANN LECTURE 1
14.00    Paul Kaufman
13.30 - 13.35    Introduction - Ernst Tamm
13.35 - Paul Kaufman

14.00    SESSION III
15.30    TARGETING AQUEOUS OUTFLOW IN GLAUCOMA
Moderators: Neeru Gupta and Ernst Tamm
Discussions: Abe Clark and Paul Kaufman
14.00 - Update on conventional and unconventional outflow pathways - Ernst Tamm
14.10    Discussion
14.20    The lymphatic outflow pathway and new insights - Neeru Gupta
14.30    Discussion
14.40    Molecular signaling in the outflow pathways - Jorge Alvarado
14.50    Discussion
15.00 - Novel ocular antihypertensive compounds in clinical trials - Gary Novack
15.10    Discussion
15.20 - Additional Session Discussion
15.30 - Coffee break
16.00 -

16.00    SESSION IV
17.30    SAFE AND EFFECTIVE SURGERY IN THE DEVELOPED AND DEVELOPING WORLD
Moderators: Don Budenz and Ravi Thomas
Discussions: Peng Khaw and Alan Robin
16.00 - Update on outcomes of new surgical approaches in both environments - Tarek Shaarawy (guest)
16.10    Discussion
16.20 - Trab versus tube in both environments - Don Budenz
16.30    Discussion
16.40 - Why does cataract surgery lower pressure - Should we do it more? - Henry Jampel
16.50    Discussion
17.00 - The role of SLT as primary therapy for glaucoma in developing countries - Ramasamy Krishnadas
17.10    Discussion
17.20 - Additional Session Discussion
17.30 - Brief Announcements

19.30 - 21.30
DINNER RESIDENZKELLER

6
FRIDAY, SEPTEMBER 7

7.30  SESSION I
9.30  NEUROPROTECTION AND NEUROREGENERATION – NEW TARGETS AND STRATEGIES
      Moderators: Keith Martin and Colm O’Brien
      Discussants: Jonathan Crowston and Harry Quigley

7.30  Neuroregeneration - Keith Martin
7.40  Discussion
7.50  RGC axon targets - Hani Levkovitch-Verbin
8.00  Discussion
8.10  ONH astrocyte and glial targets - Abe Clark
8.20  Discussion
8.30  ONH lamina cribrosa cell targets - Colm O’Brien
8.40  Discussion
8.50  Better outcome measures - Linda Zangwill
9.00  Discussion
9.10  Most feasible strategy now - How to avoid long trials - Jeff Liebmann
9.20  Discussion

9.30  Coffee break
10.00

10.00  SESSION II
12.00  SCLEA, LAMINA AND CSF IN MYOPIA AND GLAUCOMA
       Moderators: Jost Jonas and Ki Ho Park
       Discussants: Chris Girkin and Don Minckler

10.00  Scleral/laminar/CSF biomechanics with age, myopia and glaucoma - Crawford Downs (guest)
10.10  Discussion
10.20  Myopia and low CSF pressure as risk factors for glaucoma - Jost Jonas
10.30  Discussion
10.40  Translaminar pressure gradient and potential mechanisms of axonal insult - James Morgan (guest)
10.50  Discussion
11.00  Laminar and disc hemorrhage in myopia and glaucoma - Ki Ho Park
11.10  Discussion
11.20  Peripapillary scleral and choroidal thickness/atrophy in myopia and glaucoma - Marcelo Nicolella
11.30  Discussion
11.40  Surgical considerations in the myopic or NTG eye - Tetsuya Yamamoto
11.50  Discussion

12.00 - 13.00
BUSINESS MEETING

13.00  Lunch
14.00
FRIDAY, SEPTEMBER 7

14.15 - 18.00
GUIDED SIGHTSEEING TOUR WÜRZBURG

19.30 - 21.30
DINNER JULIUSPITAL PAVILLION

SATURDAY, SEPTEMBER 8

8.30  SESSION I
10.30 SDOCT PARADIGM CHANGE IN CLINICAL DISC AND RNFL ASSESSMENT
Moderators: Claude Burgoyne and Balwantray Chauhan
Discussants: Ted Garway Heath and Jost Jonas
8.30  Optic nerve head and nerve fiber layer targets of interest - Goji Tomita
8.40  Discussion
8.50  What is the clinical disc margin - Anatomy and conceptual framework - Claude Burgoyne
9.00  Discussion
9.10  Is it time to abandon the disc margin and cup to disc ratio as we know them? - Balwantray Chauhan
9.20  Discussion
9.30  Approaches for detecting change with SDOCT - Linda Zangwill
9.40  Discussion
9.50  Imaging the macula for diagnosis and progression - Chris Leung
10.00 Discussion
10.10 How can SDOCT improve genome-wide association studies? - David Mackey
10.20 Discussion
10.30  Coffee break
11.00

11.00  SESSION II
12.30 TOTAL CARE FOR THE GLAUCOMA PATIENT
Moderators: Lee Alward and Gary Novack
Discussants: Paul Lee and Thierry Zeyen
11.00  What are the real costs to the patient for surgery versus pharmacotherapy? - Richard Mills
11.10  Discussion
11.20  What does the patient experience? - Peter Shah (guest)
11.30  Discussion
11.40  What is an outcome and how do we measure it? - Alan Robin
11.50  Discussion
12.00  What about the rest of the patient? - Lee Alward
12.10  Discussion
12.20  Additional Session Discussion
12.30  Lunch
13.30
SATURDAY, SEPTEMBER 8

13.30 GOLDMANN LECTURE 2
14.00 Elke Lutjen-Drecoll

13.30 Introduction - Franz Grehn
13.35 Light and electron microscopic aging changes within the ONH and TM - Elke Lutjen-Drecoll

14.00 SESSION III
15.40 THE NATURE OF AGE AS A RISK FACTOR IN GLAUCOMA
   Moderators: Jonathan Crowston and Harry Quigley
   Discussants: Claude Burgoyne and Elke Lutjen-Drecoll

14.00 Clinical evidence of increased ONH susceptibility with age - Harry Quigley
14.10 Discussion
14.20 Aging changes within 3D reconstructions of human/monkey optic nerve heads - Chris Girkin (guest)
14.30 Discussion
14.40 Do ONH blood flow and OPP change with age? - Selim Orguel
14.50 Discussion
15.00 Age / ONH mitochondria and caloric deprivation - Jonathan Crowston
15.10 Discussion
15.20 Predicting rates of change and life expectancy - Anders Heijl
15.30 Discussion

15.40 Coffee break
16.10

16.10 SESSION IV
17.30 NEW MEMBER TALKS
   Moderators: Ivan Goldberg and Anja Tuulonen
   Discussants: Jamie Brandt and Mark Sherwood

16.10 Six year incidence of angle closure disease in South Indian population - Lingam Vijaya
16.20 Discussion
16.25 The concept of ocular perfusion pressure status - Fotis Topouzis
16.35 Discussion
16.40 Interventions for open angle glaucoma - The current state of the evidence - Richard Wormald
16.50 Discussion
16.55 Changing roles of perimetry in glaucoma management - Boel Bengtsson
17.05 Discussion
17.10 Additional Session Discussion

18.45 RECEPTION BEFORE CHAMBER CONCERT
19.15 CHAMBER CONCERT IN TOSCANAAL
20.15 DINNER RESIDENZ GARTENSAAL
GENERAL INFORMATION

SITE OF THE MEETING
Toscanasaal – Residenz (Rennweg – 97070 Würzburg D)

The entrance to the Toscanasaal is through the central door of the right wing (viewed from parking, see pictures, red arrow). Enter the 1st inner court. On your right (some steps) is the entrance to the staircase. The Toscanasaal is on the 2nd floor (Elevator on your left). Postersigns with Congress logo will be present.

PARKING AT MEETING
In front of the Residenz there are 400 chargeable parking places for cars.

ORGANIZING SECRETARIAT

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50121 Florence, Italy
Phone +39 055 5035 1
Fax + 39 055 570227
info@oic.it

REGISTRATION DESK
The Organizing Secretariat Desk in the Hall in front of the Toscanasaal will be open for registrations and information according to the following time schedule
Wednesday, September 5   15.00 – 18.00
Thursday, September 6     7.30 – 17.30
Friday, September 7        7.00 – 14.00
Saturday, September 8      8.00 – 17.30
Please collect the Meeting kit at the Secretariat Desk and wear your personal name badge during the scientific sessions and social activities.

REGISTRATION FEES (VAT included)
GRS Member      € 550,00
Guest of a Member € 550,00
Accompanying person € 300,00
Tour Sept. 7 afternoon dinner included € 120,00
Accompanying persons Tour - Sept. 6 full day € 90,00
Accompanying persons Tour - Sept. 8 half day € 35,00
GENERAL INFORMATION

REGISTRATION FOR DELEGATES INCLUDES
- Attendance to the Scientific Sessions
- Welcome Reception on September 5
- Dinner at the Residenz Wine Cellar on September 6
- Gala Dinner at Residenz Gartensaal on September 8
- Lunch and coffee breaks on September 6, 7 and 8

REGISTRATION FOR ACCOMPANYING PERSONS INCLUDES
- Welcome cocktail on September 5
- Dinner at the Residenz Wine Cellar on September 6
- Gala Dinner at Residenz Gartensaal on September 8
For further information about excursion and tours please check the paragraph “Excursion and Tours”.

CATERING FACILITIES
Coffee breaks will be served outside the Toscanasaal at the second and third floors. Lunches will be served in the Museum just opposite the entrance of the Lecture Hall.

CERTIFICATE OF ATTENDANCE
The certificate of attendance is included in the Congress kit.

CLOAKROOM AND LUGGAGE DEPOSIT
A cloakroom and luggage deposit located near the Toscanasaal will be available during the official Meeting time schedule. The Residenz and the Organizers are not responsible for any items, lost or left behind.

SLIDE CENTRE
The slide centre is situated near the Toscanasaal. The Meeting room is equipped with a computer slide projector alone and no traditional slide or overhead projectors for transparencies are available. It will be not possible to use personal laptops in the Meeting room. Speakers are kindly requested to use “PowerPoint” (Windows or Macintosh/Apple) for their presentations. The dimensions of PowerPoint presentation should not exceed 300 MB, videos included.
The use of CD-Rom, pens or memory stick is advisable to ease downloading of presentations, they should be handed to the technicians at the Slide Centre in good time.
SOCIAL EVENTS

WEDNESDAY, SEPTEMBER 5
h. 19.00 - Welcome Reception at the Festung (Fortress) Marienberg
Reception is foreseen at the Fürstengarten or in case of bad weather in the Burggaststätte.
Bus transfer is foreseen from Hotels Novotel and Rebestock and back. Departure h. 18.30.
Dress code: business casual and comfortable shoes.

THURSDAY, SEPTEMBER 6
h. 19.15 - Franconian Dinner at the Residenz Wine Cellar
Meeting point: at the Franconia Fountain in the Square in front of the Residenz.
No bus transfer is foreseen.
Dress code: casual with comfortable shoes and do not forget a sweater.

SATURDAY, SEPTEMBER 8
h. 18.45 - Get-together reception in the Hall in front of the Toscanasaal
h. 19.15 - Chamber Concert
h. 20.15 - Gala Dinner in the Gartensaal of the Residenz
Dress code: Business Informal.
Cloakroom will be at disposal at the Toscanasaal and at the Gartensaal.
No bus transfer is foreseen.
For further information about the Events, please ask at the Organizing Secretariat Desk.

HALF DAY OPTIONAL TOUR IN WÜRZBURG

FRIDAY, SEPTEMBER 7
h. 14.15 - Meeting point at the Franconia Fountain in the Square in front of the Residenz for a special guided visit to the marvelous Würzburg “Residenz” (by Balthasar Neumann) and Tiepolo’s paintings.

h. 15.15 - Bus transfer to the former Fortress Marienberg, one of Germany's biggest fortifications. Short stroll around the main buildings and stop in a beautiful beer garden for a short rest under old trees enjoying the view over Würzburg's valley including the renowned vineyard of “Stein”. The guests will have the opportunity to drink a cup of coffee or a glass of local beer.

h. 16.30 - Visit to the massive battery fort of “Maschincui Tower” (normally closed to the public), another masterpiece of Balthasar Neumann which impresses the visitors with its huge, stunning vaultings, sunny terraces and underground battlements.

h. 17.15 - A slow panoramic walk downhill will bring back to the old town centre crossing the famous “Alte Mainbrücke” (Bus will be available as well).
Dress code: Comfortable shoes, preferably sneakers.

h. 19.30 - Dinner at the Garten Pavillon of Jüliusspital entrance from Juliuspromenade 19.
Dress code: Smart casual.
No bus transfer is foreseen for the dinner.

Cost per person VAT included Euro 120,00.
Bus transfer will be provided from Residenz to Fortress Marienberg and from Fortress Marienberg to downtown Würzburg. No bus is necessary for the dinner since Jüliusspital is in the pedestrian area.
English speaking guide, entrance tickets, coffee break, dinner included.
For further information about the Optional Tour, please ask at the Organizing Secretariat Desk.
ACCOMPANYING PERSONS’ PROGRAM

THURSDAY, SEPTEMBER 6
Full day excursion to the Franconian countryside “Unknown Beauties”

9.45 Departure by bus from Franconia Fountain in the Square in front of the Residence for a trip to the famous loop of river Main, enjoying the beautiful landscape and the astonishing 180 degrees’ bending of the Main at Volkach.

10.45 Stop at the panoramic point “Vogelsburg” to admire wonderful landscape.

11.30 Visit of the romantic pilgrimage church of “Our Lady in the vineyards” close to Volkach, where a renowned masterpiece of late gothic woodcarving is preserved: “Madonna in the Rosary” by Tilman Riemenschneider (1460-1531).

13.00 Lunch at Volkach.

14.30 Ride across the vineyards to a small hidden castle at Zeilitzheim (visit to house and garden guided by the owner, Lady von Halem). In the castle there are interesting unknown paintings by the Italian painter F. Marchini, a pupil of Andrea Pozzo.

15.45 On the way back to Würzburg we shall see one of the most outstanding country parish churches of the famous Baroque architect Balthasar Neumann (1687-1753) at Gaibach.

17.30 Arrival in Würzburg (stops at Hotel Rebstock and Novotel).

Cost per person VAT included Euro 90,00 (bus, English speaking guide, lunch and entrance tickets incl.).

SATURDAY, SEPTEMBER 8, 2012
Morning excursion to the unique Rococo Gardens at Veitshöchheim Lodge

9.30 Meeting point at Alten Kranen (Weiβer Kiosk).

10.00 Departure by boat to Veitshöchheim.
An enjoyable trip along the bank of the River Main will show the vineyards of Würzburg as well as the nunneries of Himmelsporten and Oberzell.

10.45 After disembarking at Veitshöchheim, guided visit of the Rococo Gardens (created in the second third of the 18th century) with its multitude of picturesque statues and surprising views.

12.30 Trip back by bus.

12.45 Arrival in Würzburg. (stops at Hotel Rebstock and Novotel).

Cost per person Euro 35,00 (boat ride, English speaking guide, entrance ticket).

For further information about the Optional Tour, please ask at the Organizing Secretariat Desk.