

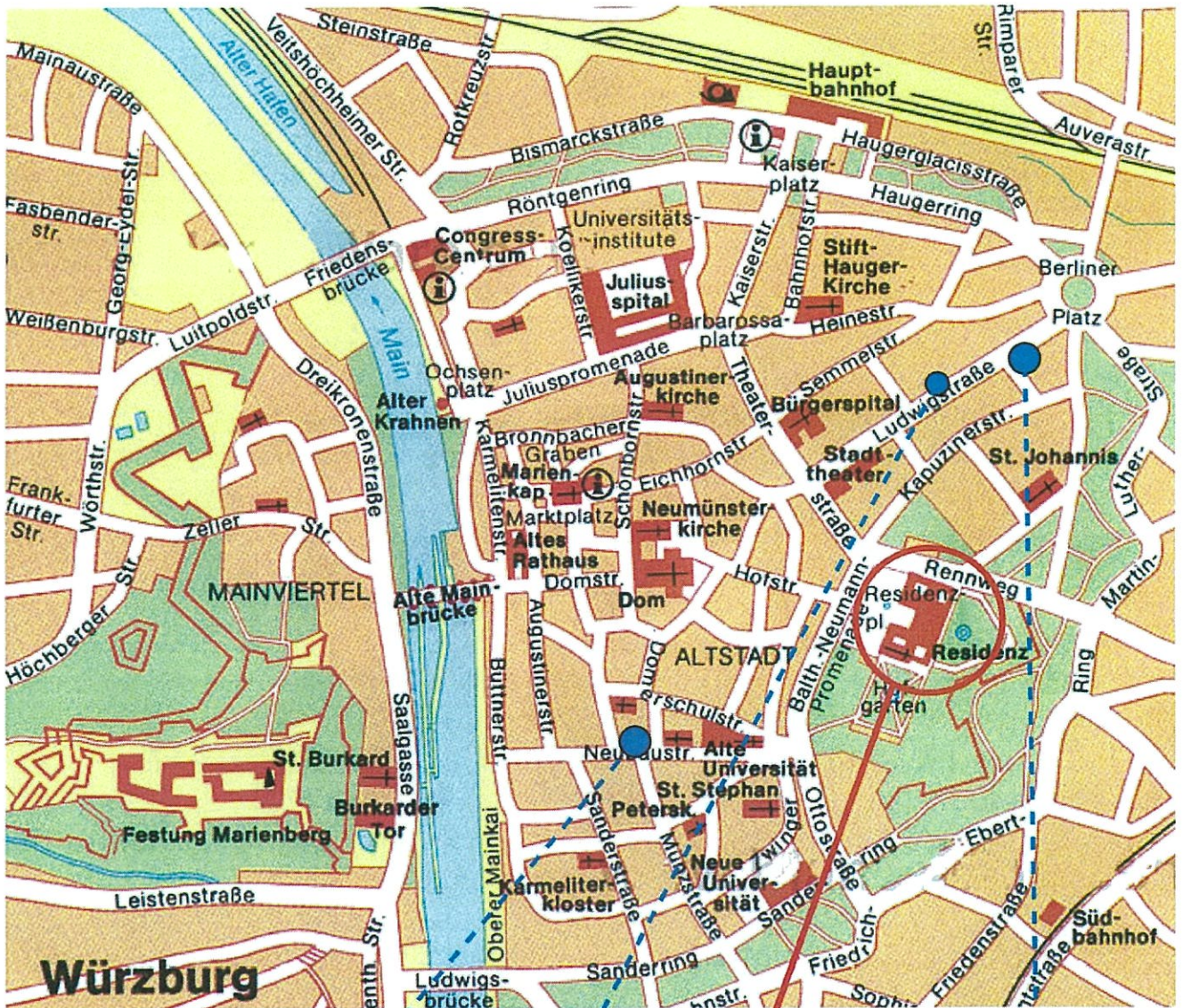
Glaucoma Research Society



GLAUCOMA RESEARCH SOCIETY  
Würzburg 2012  
Toscanasaal - Residenz  
September 5-8



## MAP OF THE CITY



Premiere Hotel Rebstock

Hotel Amberger

Novotel

Site of the Meeting



# 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.



Franz Grehn  
*Local Host, President Elect*



Harry A. Quigley  
*President*



## Glaucoma Research Society



### 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

	Wednesday, September 5	Thursday, September 6	Friday, September 7	Saturday, September 8
7.30				
8.30			<b>SESSION I</b> Neuroprotection and neuroregeneration – New targets and strategies	
9.00		<b>SESSION I</b> Better use of clinical trial data		<b>SESSION I</b> SDOCT paradigm change in clinical disc and RNFL assessment
9.30			<i>Coffee break</i>	
10.00				
10.30		<i>Coffee break</i>	<b>SESSION II</b> Sclera, lamina and CSF in myopia and glaucoma	
11.00				<i>Coffee break</i>
11.30		<b>SESSION II</b> Exploring the fundamentals of primary angle closure		<b>SESSION II</b> Total care for the glaucoma patient
12.00				
12.30			<b>Business Meeting</b>	
13.00		<i>Lunch</i>		<i>Lunch</i>
13.30			<i>Lunch</i>	
14.00		<b>Goldmann Lecture I</b>		<b>Goldmann Lecture II</b>
15.00	<b>Executive Meeting (Augenklinik)</b>	<b>SESSION III</b> Targeting aqueous outflow in glaucoma		<b>SESSION III</b> The nature of age as a risk factor in glaucoma
15.30			<b>Afternoon Tour Sept 7</b> Dinner included	
15.40		<i>Coffee break</i>		
16.00				<i>Coffee break</i>
16.10		<b>SESSION IV</b> Safe and effective surgery in the developed and developing world		<b>SESSION X</b> New member talks
17.00				
17.30				
18.00				
18.45				
19.00				<b>Get-to-gether reception and Chamber concert in Toscanasaal</b>
19.30	<b>Welcome Reception at Festung Marienberg</b>			
20.15		<b>Dinner Residenz Wine Cellar</b>	<b>Dinner Juliusspital Pavillion</b>	<b>Dinner Residenz Gartensaal</b>
21.00				





### WEDNESDAY, SEPTEMBER 5

14.00 EXECUTIVE MEETING  
17.00 (location: Augenklinik Bibliothek)

19.00 - 21.00  
RECEPTION AT FESTUNG MARIENBERG

### THURSDAY, SEPTEMBER 6

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

8.35 SESSION I

10.35 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 Introduction - Ernst Tamm

13.35 The biology of aqueous outflow - regulation and manipulation - Paul Kaufman

### 14.00 SESSION III

#### 15.30 TARGETING AQUEOUS OUTFLOW IN GLAUCOMA

Moderators: Neeru Gupta and Ernst Tamm

Discussants: 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

Discussants: 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





## 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 SCLERA, 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 Nicolela

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 JULIUSSPITAL 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 Thiery 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 TOSCANASAAL

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 1<sup>st</sup> inner court. On your right (some steps) is the entrance to the staircase. The Toscanasaal is on the 2<sup>nd</sup> 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



O.I.C srl  
Viale G. Matteotti, 7  
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 Rebstock 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 "Maschiculi 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 Juliusspital 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 Juliusspital 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 (Weißer 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 Himmelspforten and Oberzell.
- 10.45 After disembarking at Veitshöchheim, guided visit of the Rococo Gardens (created in the second third of the 18<sup>th</sup> 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.



Glaucoma Research Society

