



17th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery



17th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery

14 – 17 JUNE 2017
AACHEN, Germany

www.caos2017.de





Questions:

- Where and what is Aachen ?
- Why CAOS 2017 in Aachen ?
- What will be CAOS 2017 in Aachen ?
- How to tell my family to go to Aachen ?

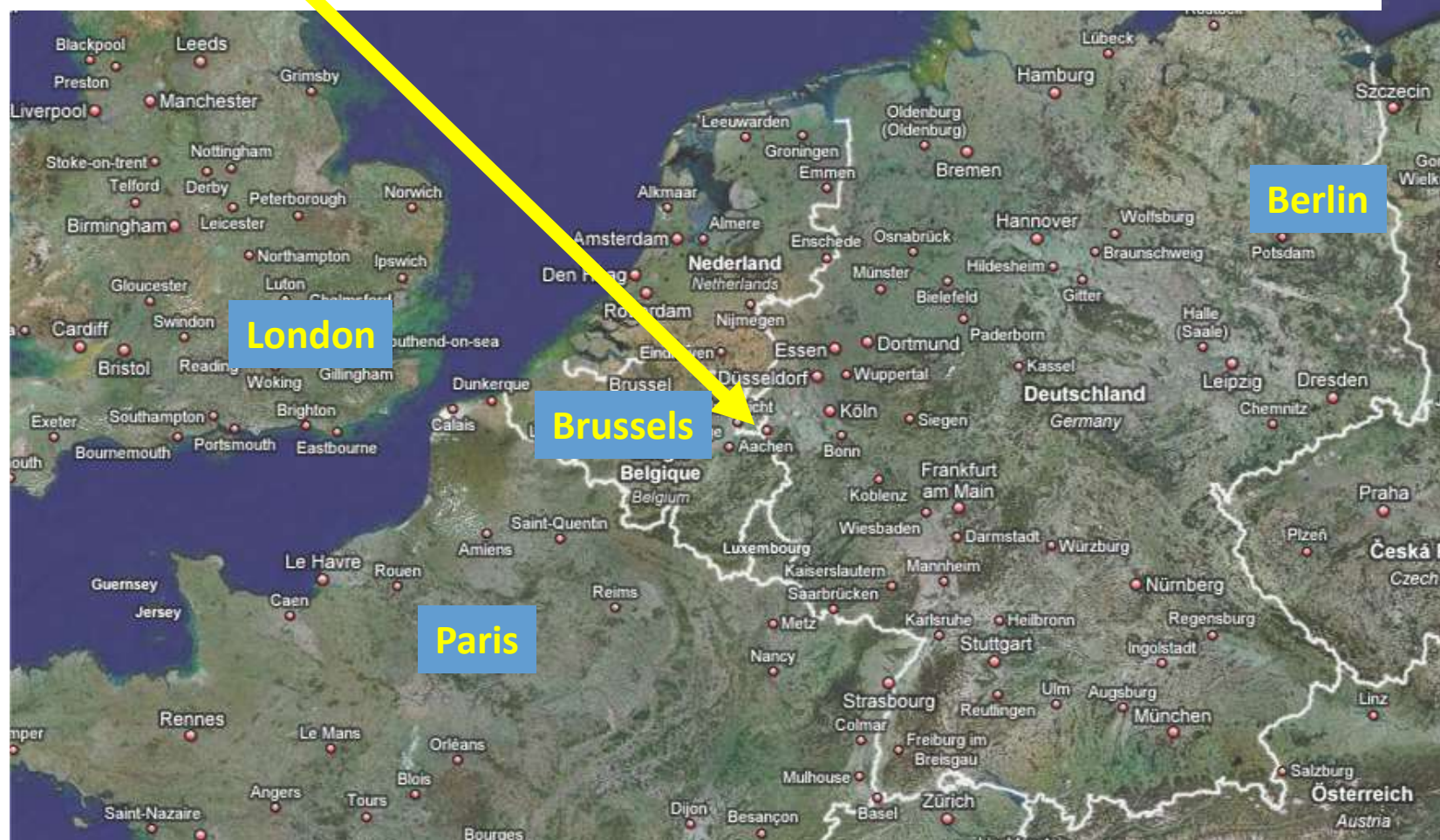


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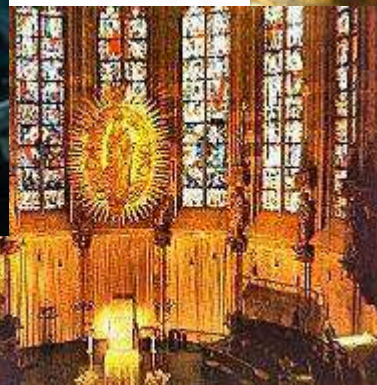
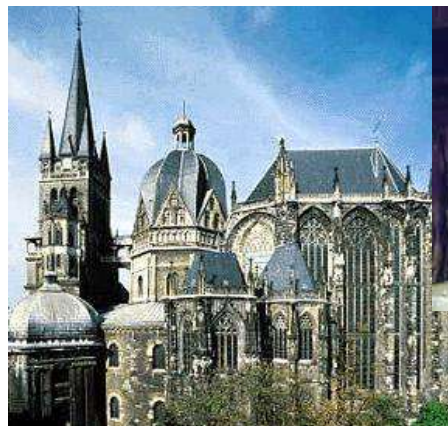
Aachen @ the Center of Europe





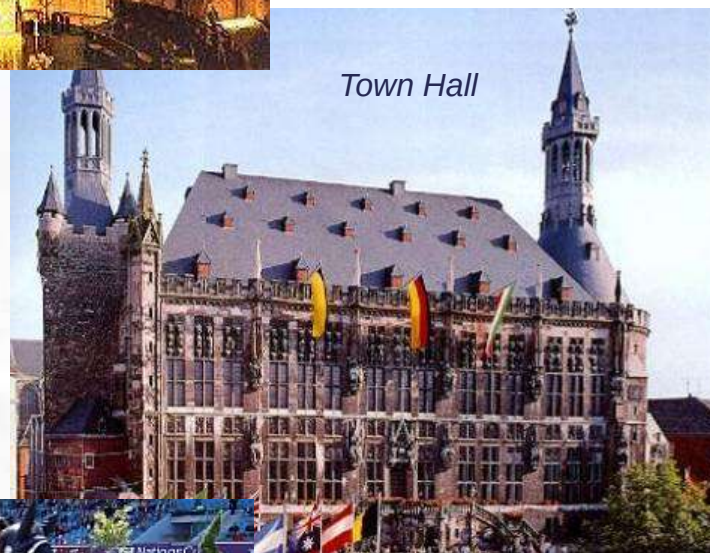


Aachen (Aix-la-Chapelle) - a charming City



Charlemagne's Chapel
at his Court in Aachen
(UNESCO World Cultural Heritage)

Town Hall



Elisen Hot Springs



Charles Therme
Lake Rur



Water in (and around)
Aix-la-Chapelle (Aachen)



CHIO,
the World Equestrian Festival



Questions:

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Aachen - an excellent site for interdisciplinary research!

UNIKLINIK
RWTHAACHEN
UNIVERSITY

- 50.000 Students
- 5.000 Researchers
- 500 Professors
- Leading German Engineering Education and Research
- Medical Faculty since 1966
- Largest Institute for Biomedical Engineering in D-A-CH
- Largest Interdisciplinary Campus Lifesciences

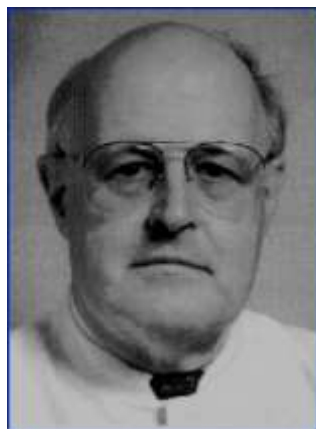
University Clinic

Helmholtz-Institute f. Biomedical Engineering
and Campus Life Science





An excellent site for interdisciplinary research: **Surgical Navigation was born in Aachen: 1986-1987** **(First Applications in ENT and Neurosurgery)**



Prof. G. Schlöndorff , MD



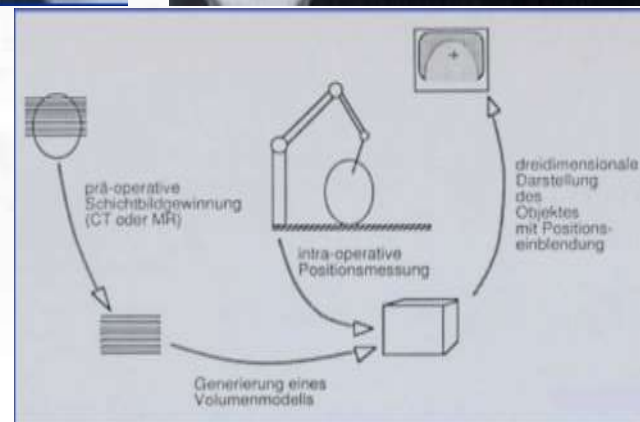
Prof. D. Meyer-Ebrecht, PhD



1986-87



G. Schlöndorff, R. Mösges, D. Meyer-Ebrecht, W. Krybus,
L. Adams: CAS Ein neuartiges Verfahren in der Kopf-
Halschirurgie. HNO (1989) 37:187-190





Individual Templates („PSI“) were born in Aachen

- 1988-1992 First concepts of PSI and patent (individual templates) CAOS (Radermacher et al.1992)
- **1993 First human intervention with PSI (Radermacher et al. 1994)**



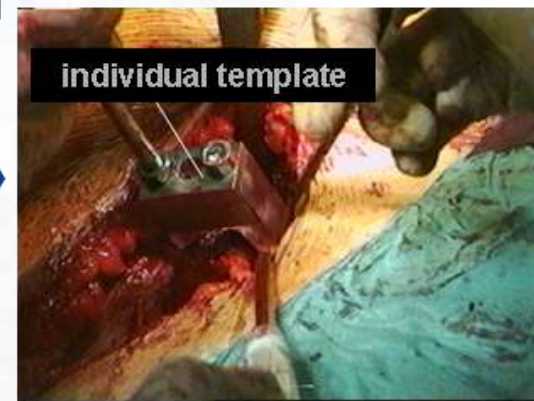
pre-operative planning + automatic
manufacturing of customised tool guides

DISOS-milling unit*
("3D-printer")



Pentium PC / Win NT

intraoperative guidance



individual template

First CAS Tripel-Periacetabular Repositioning Osteotomie
With individual templates: 1993 by Prof. Staudte, Aachen/Würselen



An excellent site for interdisciplinary research:

... (More to come ...)





Awards in Aachen: **Prix International Charlemagne**

(Selected Awardees you may know:)



Sir Winston



(If you are not candidate for the Charlemagne Award for European Integration...)
Win your CAOS Award in Aachen 2017 !!!



Václav Havel
1991



William Jefferson (Bill)
Clinton
2000



Angela Merkel
2008



2016



Accessibility

- Airports

Maastricht/Aachen (MAA)	ca. 22 miles
Liège (LGG)	ca. 40 miles*
Cologne/ Bonn (CGN)	ca. 55 miles
Düsseldorf (DUS)	ca. 60 miles
Brussels (BRU)	ca. 90 miles
Dortmund (DTM)	ca. 100 miles
Frankfurt a.M. (FRA)	ca. 170 miles



*about the distance from Osaka Kansai International Airport to Osaka Down Town/Conference Center



ICE High Speed Train



Liège – Aachen	0,5 h
Cologne – Aachen	1 h*
Düsseldorf – Aachen	1,5 h
Brussels – Aachen	1 h*
Dortmund – Aachen	2,5 h
Amsterdam – Aachen	3,5 h
Frankfurt a.M. – Aachen	1,8 h
Paris – Aachen	2,5 h
London – Aachen	4 h



*about the distance from Osaka Kansai International Airport to Osaka Down Town/Conference Center



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Meeting Formats

- Preconference Workshops (Wednesday)
- Free papers session (clinical, technical, interdisciplinary)
- Poster and Special poster exhibit
- Keynote lectures
- Round table discussions
- Hands-on workshops for clinicians and researchers
- Industry exhibit
- Industrial career workshops for students
(4-6 pm on Thursday and Friday: free access for students from RWTH Aachen University and other Universities)



Topics – CAOScience, Surgery and related fields

- State-of the-art systems in CAOS
- Critical review of clinical trends and results
- Quality control in and with CAOS (Surgical Monitoring)
- CAOS – a tool in Education & Training
- CAOS in basic medical research
- New technical tools, components and developments (algorithms, sensors, actors, robotics,...)
- Open source software
- Imaging for CAOS (Fluoro, CT, MRI, US, OCT, Elastography, upright/dynamic imaging,...)

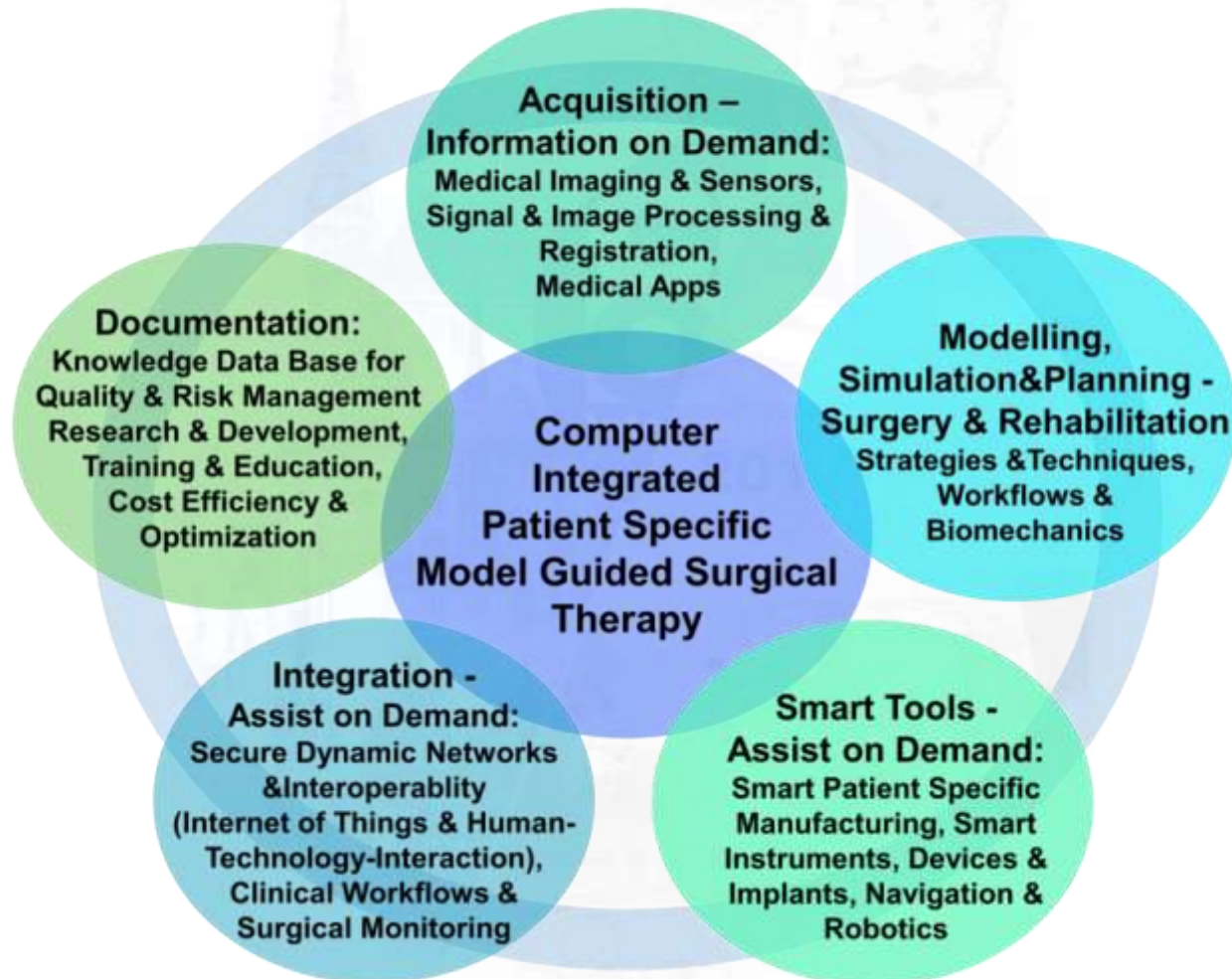


Topics – CAOScience, Surgery and related fields

- Model based Computer Integrated Personalised Orthopaedics
 - Computer Assisted Personalized Musculo-Skeletal Biomechanics
 - Model based prevention & conservative therapy,
 - personalised therapy (strategies, surgical planning, smart surgical devices, navigation and robotics); personalized implants and instruments
 - personalized model based rehabilitation
- Usability Engineering and Work flow integration; Surgical Monitoring
- Additive manufacturing („3D-printing“) & rapid manufacturing in CAOS
- OR.NET - Secure dynamic networks („IOT“) in OR and clinic
- Medical Apps for CAOS



Computer Assisted Orthopaedic Science and Surgery





Local Organising Team



Markus Tingart, MD - Björn Rath, MD (Aachen)

Christian Lüring, MD (Dortmund)

Jörg Eschweiler, PhD - Matias de la Fuente, PhD –

Sabine Stockschröder-Krüger - Klaus Radermacher, PhD

conventus Conference Management Team



Nadia Al-Hamadi



Cyntia Rammel



Venue – Eurogress Aachen





Venue – Eurogress Aachen



Plenary hall



Seminar rooms



Foyer



Foyer



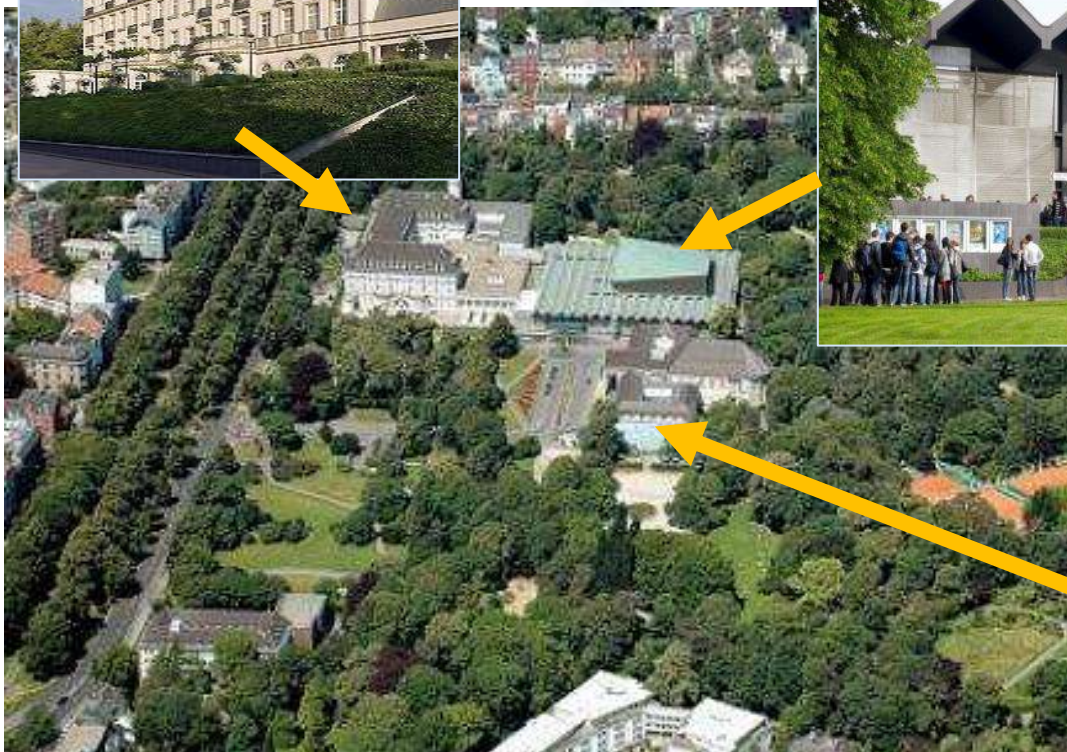
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Eurogress



Pullmann Hotel
Quellenhof*****



Casino
Aachen



17th Annual Meeting of the International Society for Computer Assisted Orthopaedic Surgery



Townhall



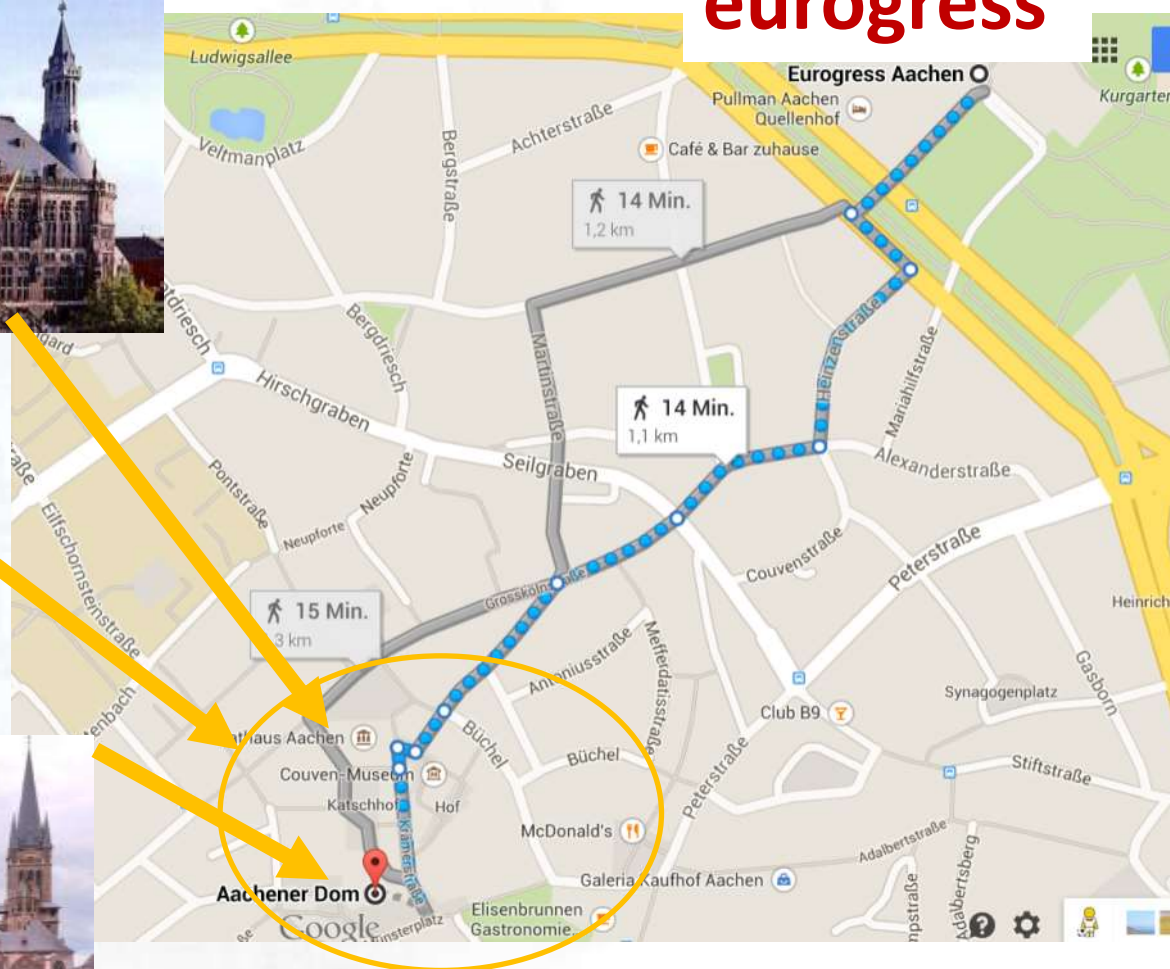
Downtown



Cathedral



eurogress





Hotels in Aachen



Pullmann Hotel
Quellenhof*****

Category	Hotel Quantity	Rooms	Beds
Luxury	1	183	312
Upscale	9	791	1456
Midscale	10	328	579
Economy	3	334	481
Low Budget	22	617	1274
Total	45	2253	4102

Distance to Eurogress Conference Center	Category	Hotel Quantity	Rooms
≤ 10 minutes by feet	*****	1	183
	****	4	366
	***	3	56
	**	1	102
≤ 20 minutes by feet	****	1	97
	***	3	206
	**	2	144
≤ 30 minutes by feet	****	1	99
	***	4	107
	**	1	104
≤ 40 minutes by feet	****	2	110
	***	4	164



Faculty/Presidential dinner: Stolberg Castle (10 miles)



Stolberg Castle was build in the 12th century
Within its historic ambience in the middle of Stolberg Downtown both food and style of
knighthood are to be enjoyed.

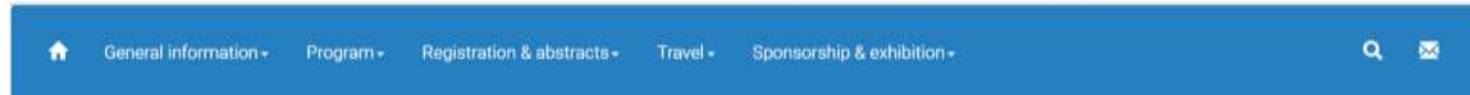


Conference dinner: Aachen Townhall (14th century)





www.CAOS2017.de



CAOS International 2017

17th Annual Meeting of the International Society for
Computer Assisted Orthopaedic Surgery
14–17 June 2017 | Aachen

1ST ANNOUNCEMENT



CONTACT



ORGANISATIONAL REMARKS



ABOUT AACHEN



USEFUL COUNTRY INFORMATION

Welcome note



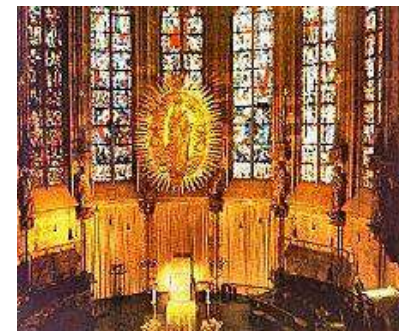
time
4
your family



Sight Seeing in Aachen (Aix-la-Chapelle)



Town Hall



Cathedral
(UNESCO
World
Heritage)



Down Town





Aachen (Aix-la-Chapelle)

- town of SPA

(lat.: „Sanus Per Aquam“

– Healthy by Water)

Do like the Romans did...

Carolus Thermen (Wellness Resort)



Lake Rur (Hiking, Swimming, Sailing,...)



Elisenbrunnen Hot Springs

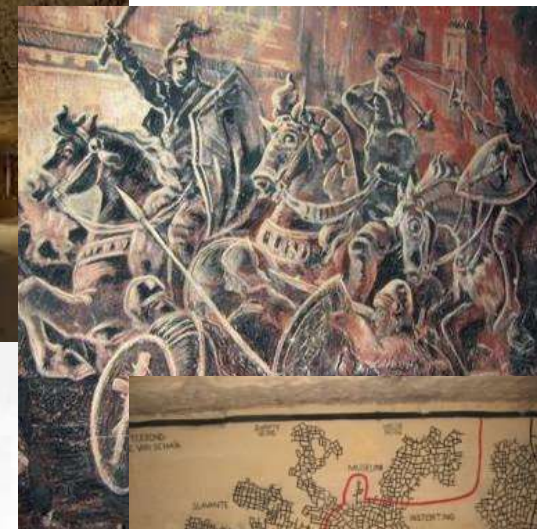


Valkenburg (Netherlands; 17 miles)

Downtown



Castle
(11th Century)



Caves

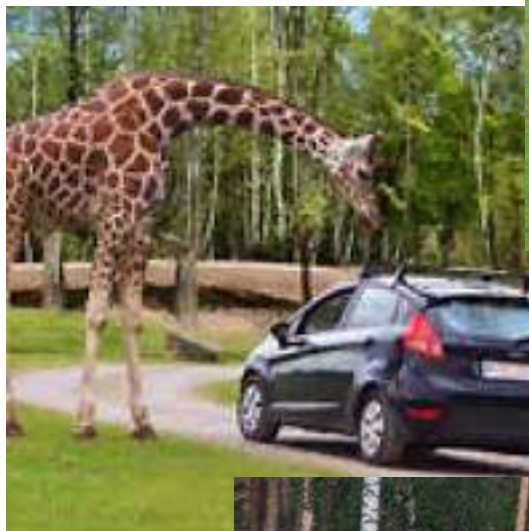


Caves of Remouchamps (Belgium; 35 miles)





Safari Park „Monde Sauvage“ Aiwaille (Belgium; 35 miles)



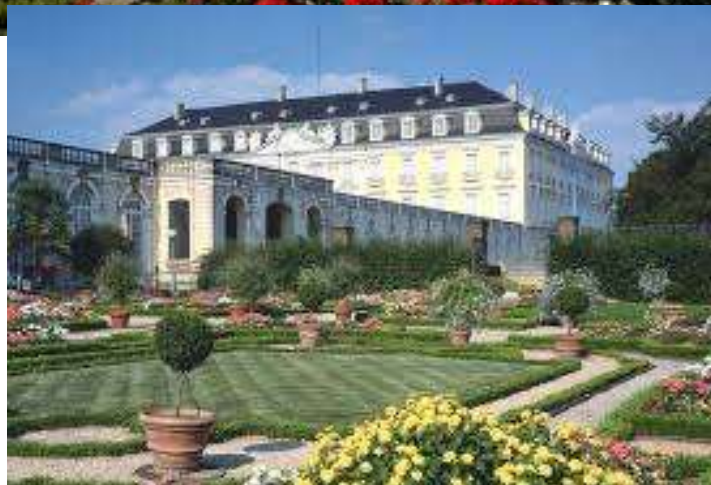


Cologne
Cathedral and Downtown
(50 miles / 50 min by train)





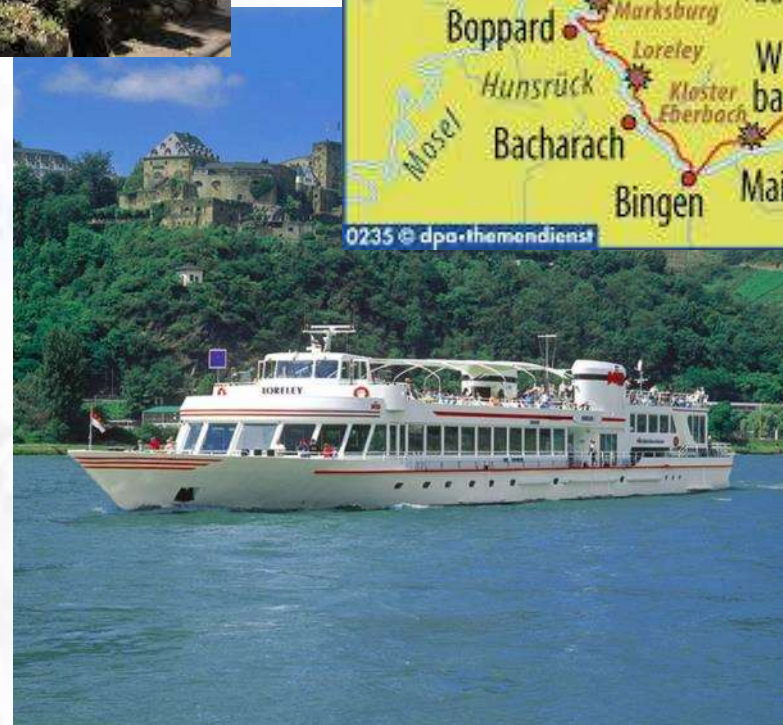
Chateau Brühl (44 miles)





Cologne

Rhine Valley (50 miles)



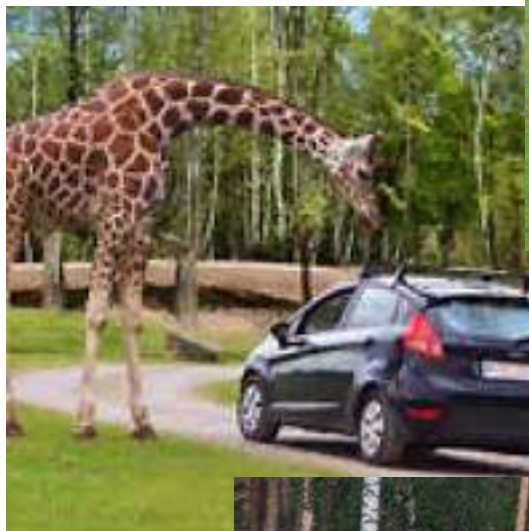


Eltz Castle (12th century; 95 miles)



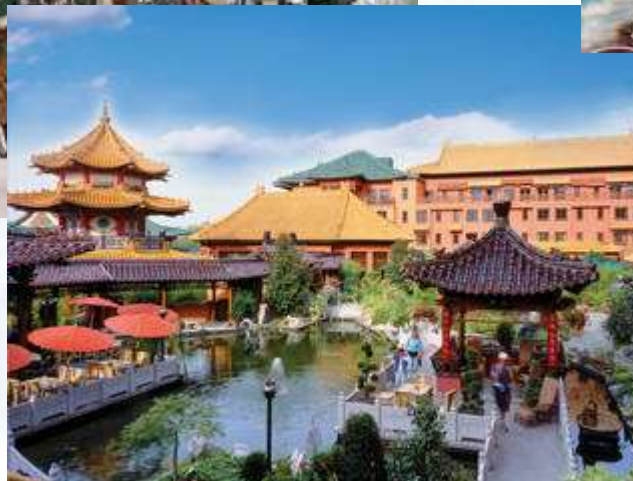
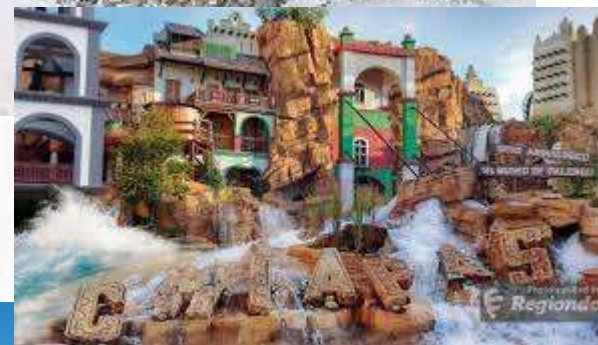


Safari Park „Monde Sauvage“ Aiwaille (Belgium; 35 miles)





Phantasia Park Brühl (44 miles)





**Efteling Park
Kaatsheuvel (NL)
(90 miles)**





Further valuable destinations

	Distance	Train hours
Liège – Aachen	58 km	0,5 h
Cologne – Aachen	78 km	<1 h
Düsseldorf – Aachen	85 km	1,5 h
Brussels – Aachen	143 km	1 h
Amsterdam – Aachen	229 km	3,5 h
Maastricht – Aachen	38 km	<1 h
Paris – Aachen	423 km	2,5 h
London – Aachen	509 km	4 h



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Welcome in Aachen 2017

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