

Adrenaline & Repair

Complication Management in Neurosurgery

International Course and Conference | June 23–25, 2022

Klagenfurt, Austria

CONFERENCE PROGRAM

Scientific Board:

Thomas Kretschmer, MD, PhD, IFAANS

Dir. Dept. of Neurosurgery, Klinikum Klagenfurt, Austria

www.adrenaline-repair.at





Dear colleagues,

I am delighted to invite you to a unique course and conference in Klagenfurt/Austria, the heart of beautiful Carinthia. Expect a three day event that sets new standards in strive for improving neurosurgical performance by combining surgical training and exchange with performance psychology and exciting outdoor activities.



Take a look at the schedule of this unforgettable event
and save your spot on www.adrenaline-repair.at

Klagenfurt/Austria is a place that faculty and participants can enjoy in multiple ways. We highly recommend to extend your stay and tour the environment and landscape of the alpe-adriatic room.

Klagenfurt borders to Italy and Slovenia, two hours from the Mediterranean Sea, four hours to Venice, situated between the Alps and the Karawanken. It is a hiking and biking eldorado known for its crystal clear lakes, the largest of them, the Wörthersee, right at the city borders. Vienna, Salzburg and Venice are close by. Our approach is different and we are confident to constitute a new training and exchange platform with your help.

See you in Klagenfurt on June 23–25, 2022

Yours
Thomas Kretschmer, MD, PhD, IFAANS
Dir. Dept. of Neurosurgery
Klinikum Klagenfurt, Austria

GENERAL INFORMATION



General Information & Prices

Date:

June 23–25, 2022

Place:

Klinikum Klagenfurt am Wörthersee

Feschnigstraße 11

9020 Klagenfurt am Wörthersee

Congressmanagement:

convention.group

Werbeagentur Michael Mehler e. U.

2380 Perchtoldsdorf

Donauwörther Straße 12/1

T: +43 1 869 21 23-25

F: +43 1 869 21 23-18

caroline.mehler@conventiongroup.at

Scientific Board:

Thomas Kretschmer, MD, PhD, IFAANS

Dir. Dept. of Neurosurgery

Klinikum Klagenfurt, Austria

Prices:

Normal Price

EUR 840.00

EANS-Member

EUR 720.00

Limited number of participants!

Registration required!

Cancellation free of charge up to 4 weeks before the event is possible. After that, the full participation fee must be paid in case of cancellation.



Adrenaline Related Activities:

Sailing Wörthersee with Olympic games participant/worldchamp silver medalist Niko Resch	EUR 50.00 max. 5 PAX
Intro to breathing techniques by world champ in Apnoe diving Christian Redl	EUR 150.00 max. 10 PAX
1 hour Fight Club – an intro to Brazilian Jiu Jitsu	EUR 50.00
Adventure Park Waldseilpark with 600 m Tscheppa Gorge traverse	EUR 30.00
Canyoning at the Tscheppa Gorge	EUR 80.00
Abseiling from Pyramidenkogel	EUR 20.00
Stand-up Paddling	EUR 55.00
Tandem Paragliding	EUR 150.00

SCIENTIFIC & TRAINING PROGRAM



Day 1 | June 23, 2022 FOUNDATION & NERVE

Lecture room | 1st floor main entrance

08:00–08:15

WELCOME & INTRODUCTION

Arnold Gabriel | KABEG CEO & **Thomas Kretschmer**

08:15–10:15

PERFORMANCE UNDER ACUTE STRESS – WHAT CAN WE LEARN FROM HIGH PERFORMANCE ATHLETES?

Keynote lectures, Q & A, discussion

Endurance, stress & fighting panic | pain-breathing & awareness |
risk analysis & management | improving concentration |
reducing recuperation time | remaining in control of the situation

Christian Redl | Apnoe diver and multiple world record holder e.g. deep & under ice

Clutch performance – higher performance levels and flow

Thomas Brandauer | Former high performance endurance athlete,
sports psychologist, Olympic Center Carinthia & Klagenfurt University, Austria

AD HOC TOPICS, Q & A

Faculty & participants

Quick start: breathing for focus & easing, techniques „dry lab“

Christian Redl | Apnoe diver and multiple world record holder e.g. deep & under ice

10:15–10:45

COFFEE & TEA

in front of lecture room

10:45–12:15

CAN YOU PREPARE TO MASTER ACUTE COMPLICATIONS?

Keynote lectures, Q & A, discussion

How I prepare for difficult cases | lessons I learnt –
cerebrovascular and skullbase

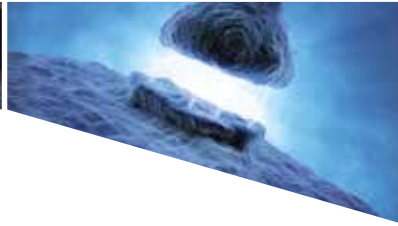
Anil Nanda | Chair Dept. Neurosurgery, Rutgers University, Newark/New Jersey, USA

How I prepare for difficult cases | lessons I learnt –
cerebrovascular and skullbase

Mike Tymianski | Past Chair Div. Neurosurgery, Toronto Western Hospital,
CEO NONO Inc., Toronto/Ontario, Canada

How I prepare for difficult cases | lessons I learnt – nerve & plexus

Fernando Guedes | Chair Dept. of Neurosurgery, University Rio de Janeiro, Brasil



12:15–13:00

LUNCH Aisle in front of hands-on-rooms, same floor as industrial exhibit
>> **Live link** to [vascular surgery](#) at angio-suite (subject to availability)

13:00–14:30

IATROGENIC NERVE LESIONS & REPAIR

Overview

Lukas Rasulic & Thomas Kretschmer

Acute repair techniques & strategies for peripheral nerves

Mariano Socolovsky | Chair Dept. of Neurosurgery, University of Buenos Aires, Argentina

Plexus associated complications & positioning lesions

Christian Heinen | Chair EANS Nerve Section, Quakenbrück, Germany

PN tu mishaps & repair (incl. intraabdominal)

Fernando Guedes | Chair Dept. of Neurosurgery, Rio de Janeiro, Brazil

Preventing CN damage & repair – from I to XII, peculiarities, tips and tricks

Thomas Kretschmer | Dir. Dept. Neurosurgery, Klagenfurt, Austria

Optic nerve – what to expect | how to prevent damage | findings

Lukas Rasulic | Dir. Dept. Neurosurgery, President EANS PN section, University of Belgrade, Serbia

Brain plasticity & nerve

Mariano Socolovsky | Chair, Dept. of Neurosurgery, Univ. of Buenos Aires, Argentina

MY WORST CASE - SURGICAL NIGHTMARES & FREE PAPERS

Keki Turel | Faculty & participants

AD HOC TOPICS, Q & A

Faculty & participants

AFTERNOON & EVENING PROGRAM



Day 1 | June 23, 2022

AFTERNOON CHALLENGE

14:30–18:00

ADRENALINE RELATED ACTIVITY

Different choices of optional outdoor activities (pre-register)

Choices availability dependent on demand after registration

Strain from sporty-strenuous **(s)** over mediocre **(m)** to very relaxed **(r)**

Bus/shuttle transfer > information will follow

18:30–22:00

EVENING EVENT: Perspectives – A Night at the Hill “Pyramiden- kogel” & Buschenschank

(Included in the congress fee)

Bus transfer to Pyramidenkogel at 18:30

View from the tower & aperitif

Bus transfer from Pyramidenkogel to Buschenschank at 20:00

Dinner & activity



SCIENTIFIC & TRAINING PROGRAM



Day 2 | June 24, 2022 VASCULAR, CEREBRAL & FREE PAPERS

Lecture room | 1st floor main entrance

08:00–10:15

COMPLICATIONS & MANAGEMENT IN VASCULAR & CRANIAL NEUROSURGERY

Morning session

CRANIAL & SKULLBASE

Aspects of transnasal approaches –
microsurgical, microscopic & endoscopic

Anil Nanda | Chair Dept. Neurosurgery, Rutgers University, New Jersey/Newark, USA

Transnasal approaches – endoscopy, cases

Julius July | Dept. Neurosurgery, Assistant Dean Edu, University Pelita Harapan,
Neuroscience Center Siloam Hospital, Tangerang/Jakarta, Indonesia

Complications & management anterior cranial fossa lesions

Ralph König | Chief Attending, Dept. Neurosurgery, Ulm University, Germany

Anatomy prone to complications: inside middle cranial fossa –
vulnerable structures & variants

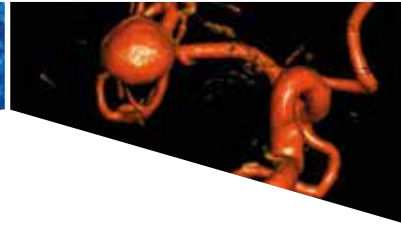
Peter A. Winkler | Dir. Dept. Neurosurgery, Salzburg University, Austria

Temporal lobe surgery-pitfalls and avoidance of complications

Martin Ortler | Dir. Dept Neurosurgery, KH Rudolfstiftung, Vienna, Austria

10:15–10:45

COFFEE & TEA in front of lecture room



10:45–12:15

CRANIAL & SKULLBASE

Complications & management in glioma & epilepsy surgery

Karl Rössler | Chair Dept. Neurosurgery, Vienna University, AKH, Vienna, Austria

Anatomy prone to complications: inside posterior cranial fossa – vulnerable structures & variants

Peter A. Winkler | Dir. Dept. Neurosurgery, Salzburg University, Austria

Vestibular schwannoma-pitfalls and avoiding cranial nerve deficit

Jan Regelsberger | Dir. Dept. Neurosurgery, Diakonissen Krankenhaus, Flensburg, GER

Complications and management in skullbase meningioma surgery

Anil Nanda | Chair Dept. Neurosurgery, Rutgers University, New Jersey/Newark, USA

VASCULAR

Iatrogenic venous sinus lesions – overview, repair & bailout techniques

Martin Ortler | Dir. Dept. Neurosurgery, KH Rudolfstiftung, Vienna, AUT

Major carotid artery injury – incl. maneuvers and emergent treatment path & time course

Mike Tymianski & Andreas Gruber

SCIENTIFIC & TRAINING PROGRAM



Day 2 | June 24, 2022 VASCULAR, CEREBRAL & FREE PAPERS

VASCULAR

Induced cardiac standstill & temporary clipping – the anesthetist's perspective

Rudolf Likar & Ursula Morianz-Kühnel | local anesthesiological team & addtl. external cand. for overpacing techniques

Induced cardiac standstill & temporary clipping – the neurosurgeon's perspective

Mike Tymianski & Thomas Kretschmer

Acute endovascular intervention for intracranial carotid lesion – emergent treatment path and time course

Klaus Hausegger & Luca de Paoli | local neurointerventional team

Inadvertent intraoperative aneurysm rupture

Mike Tymianski, Jan Regelsberger, Andreas Gruber

Complications & management of DAVF & AVM

Jan Regelsberger | Dir. Dept. Neurosurgery, Diakonissen Krankenhaus, Flensburg, GER

Bailout for navigational dysfunction

Thomas Schmidt | Dept. Neurosurgery, Oldenburg University, Oldenburg, Germany

Complication avoidance using intraoperative Ultrasound

Ralph König | Chief Attending, Dept. Neurosurgery, Ulm University, Germany

12:15–13:15

LUNCH

Aisle in front of hands-on-rooms same floor as industrial exhibit

>> **Live video links** to [endovascular procedure](#) & [open vascular surgery](#) (subject to availability)



Hands-on-rooms 1, 2, 3 | ground floor, back entrance

Participants circulating in the rooms on days 2 and 3

12:15–13:15

"HANDS ON" STATIONS 1-3 & LUNCH

Aisle in front of hands-on-rooms same floor as industrial exhibit

Room 1

Vascular-suturing, anastomosis & instrument handling

Dry lab & pearls | A. Nanda, M. Tymianski, A. Gruber, K. Krishnan, H. Rauter, J. Kraschl, T. Kretschmer

Room 2

Spine-regular and bailout techniques

Saw bone & pearls | M. Mahan, A. Resch, F. Cretu, D. Soldo, T. Kretschmer

Room 3

Nerve-suturing & instrument handling

Dry lab & pearls | M. Socolovsky, L. Rasulic, Ch. Heinen, F. Guedes, K. Krishnan, T. Kretschmer

AFTERNOON & EVENING PROGRAM



Day 2 | June 24, 2022 AFTERNOON CHALLENGE

13:15–14:30

COMPLICATIONS & MANAGEMENT IN VASCULAR & CRANIAL NEUROSURGERY

Afternoon session

VASCULAR

Vascular suture and sealing techniques – tricks & pitfalls

Andreas Gruber | Dir. Dept. Neurosurgery, Linz University, Linz, Austria

Chances for acute bypass & prerequisites for success

Mike Tymianski | Past Chair Div. Neurosurgery, Toronto Western Hospital, CEO NONO Inc., Toronto/Ontario, Canada

Suturing extracranial vessels & repair techniques – from preparation to suture and heparinization

Wolfgang Wandschneider & local team Cardiothoracic Surgery, Klagenfurt, Austria

Suturing intracranial vessels from 1–6 mm acutely – prerequisites, systematic management and chances

Mike Tymianski | Past Chair Div. Neurosurgery, Toronto Western Hospital, CEO NONO Inc., Toronto/Ontario, Canada

Suturing the extracranial carotid acutely

Mike Tymianski | Past Chair Div. Neurosurgery, Toronto Western Hospital, CEO NONO Inc., Toronto/Ontario, Canada

Instant intracranial vessel mishaps – things to do & acute repair, discussion, Q & A

Andreas Gruber & Jan Regelsberger | (discussion heaters) & all faculty

MY WORST CASE – SURGICAL NIGHTMARES & FREE PAPERS

Keki Turel | Faculty & participants



AD HOC TOPICS, Q & A Faculty & participants

Intra op ICA rupture during chordoma surgery

Keki Turel | Chair WFNS Committee on Complications in Neurosurgery, Emeritus Chair Dept. Neurosurgery Bombay/Mumbai, Past President Neurological Society of India

Intra op BA rupture during chordoma surgery

Keki Turel | Chair WFNS Committee on Complications in Neurosurgery, Emeritus Chair Dept. Neurosurgery Bombay/Mumbai, Past President Neurological Society of India

Catastrophic outcome following „trivial“ transverse sinus injury during tentorial meningioma excision

Keki Turel | Chair WFNS Committee on Complications in Neurosurgery, Emeritus Chair Dept. Neurosurgery Bombay/Mumbai, Past President Neurological Society of India

14:30–18:30

ADRENALINE RELATED ACTIVITY

Different choices of optional outdoor activities (pre-register)

Choices availability dependent on demand after registration

Strain from sporty-strenuous (**s**) over mediocre (**m**) to very relaxed (**r**)

Bus/shuttle transfer > information will follow

19:30–22:00

EVENING EVENT: Dinner by the lake at Jilly beach “UPSTAIRS” (Included in the congress fee)

Pörtschach am Wörthersee

The indian twist – how Yoga & Meditation can help to prepare, focus, perform & stay in control of cases and critical events

Keki Turel | Chair WFNS Committee on Complications in Neurosurgery, Emeritus Chair Dept. Neurosurgery Bombay/Mumbai, Past President Neurological Society of India



SCIENTIFIC & TRAINING PROGRAM



Day 3 | June 25, 2022 | SPINE & FREE PAPERS

Lecture room | 1st floor main entrance

08:00–12:30

COMPLICATIONS & MANAGEMENT IN SPINAL SURGERY

Morning session

APPROACHES & LESIONS

How to deal with complications in Neurosurgery

Keki Turel | Chair WFNS Committee on Complications in Neurosurgery, Emeritus Chair Dept. Neurosurgery Bombay/Mumbai, Past President Neurological Society of India

Vascular complications in surgery on the neck & craniocervical junction-vertebral artery

Michaël Bruneau | Dir. Vascular & skullbase Progrm Dept. Neurosurgery, ERASME Hospital free University of Brussels, current President Belgian Neurosurgical Society, Brussels, Belgium

Nerve complications in surgery on the neck

Eric Zager | Chair Perelman School of Medicine, Dept. of Neurosurgery, University of Pennsylvania, USA

Wrong level spinal surgery – how to avoid it & how to manage it when it happens

N.N.

Complications & management of anterior cervical spine approaches

Mark Mahan | Dept. Neurosurgery, University of Utah, USA

Complications & mangement at cranio-cervical junction

Mark Mahan | Dept. Neurosurgery, University of Utah, USA

Pitfalls of odontoid screw fixation for type IIb fracture

Kartik Krishnan | Head section Neurosurgery, Klinikum Bad Soden, Germany

Complications & management in ant & lateral approaches, thoracic and lumbar

N.N.

SCIENTIFIC & TRAINING PROGRAM



Day 3 | June 25, 2022 | SPINE & FREE PAPERS

Hands-on-rooms 1, 2, 3 | ground floor, back entrance
Participants circulating in the rooms on days 2 and 3

12:30–13:30

"HANDS ON" STATIONS 1–3 & LUNCH

Aisle in front of hands-on-rooms same floor as industrial exhibit

Room 1

Vascular-suturing, anastomosis & instrument handling

Dry lab & pearls | A. Nanda, M. Tymianski, K. Krishnan, H. Rauter, J. Kraschl, T. Kretschmer

Room 2

Spine-regular and bailout techniques

Saw bone & pearls | M. Mahan, A. Resch, F. Cretu, D. Soldo, T. Kretschmer

Room 3

Nerve-suturing & instrument handling

Dry lab & pearls | M. Socolovsky, L. Rasulic, Ch. Heinen, F. Guedes, K. Krishnan, T. Kretschmer

13:30–15:00

COMPLICATIONS IN SPINAL SURGERY

Afternoon session

VASCULAR INJURY

Vascular injury in spinal instrumentation & dorsal approaches to the spine
N.N.

Acute endovascular intervention for abdominal/iliac vessel injury – action chain & time course

Klaus Hausegger & Luca de Paoli | local neurointerventional team

>> [Live link to elective endovascular procedure](#) at angio-suite (subject to availability)

Major vascular injury during dorsal spine approaches – different scenarios & emergent treatment algorithm

W. Wandschneider, K. Klerin & J. Kraschl | local teams Cardiothoracic Surgery & Neurosurgery



MY WORST CASE – SURGICAL NIGHTMARES & FREE PAPERS

Faculty & participants

AD HOC TOPICS, Q & A

Faculty & participants

FREE PAPERS

15:00

CONCLUSION & FAREWELL

Thomas Kretschmer

* Program changes reserved

FACULTY

Faculty

Thomas Brandauer

Former high performance endurance athlete,
Sports Psychologist, Olympic Center Carinthia &
Klagenfurt University, AUT

Michaël Bruneau

Dir. Vascular & skullbase Progrm Dept. Neurosurgery,
ERASME Hospital free University of Brussels, current
President Belgian Neurosurgical Society, Brussels,
Belgium

Andreas Gruber

Dir. Dept. Neurosurgery, Linz University, Linz, AUT

Fernando Guedes

Div. Of Neurosurgery Gaffree e Guinle University
Hospital, Fed. University of Rio de Janeiro, BRA

Christian Heinen

Head of Neuro-, Spine and Nerve Surgery
Christliches Krankenhaus Quakenbrück GmbH, Germany
Section Chair „Peripheral Nerve Surgery“ European
Association of Neurosurgical Societies EANS
Section Chair „Periphäre Nerven“ German Society of
Neurosurgery DGNC

Julius July

Dept. Neurosurgery, Asst Dean Edu,
University Pelita Harapan, Neuroscience Center
Siloam Hospital, Tangerang/Jakarta, IDN

Ralph König

Chief Attending, Dept. Neurosurgery,
Ulm University, GER

Kartik Krishnan

Head section Neurosurgery, Klinikum Bad Soden, GER

Mark Mahan

Dept. Neurosurgery, University of Utah, USA

Anil Nanda

Chair Dept. Neurosurgery, Rutgers University,
Newark/New Jersey, USA

Martin Ortler

Dir. Dept. Neurosurgery, KH Rudolfstiftung, Vienna, AUT

Lukas Rasulic

Head Dept. of Peripheral Nerve and Functional
Neurosurgery, President Serbian & Southeast Europe
Neurosurgical Society, Chair EANS Global &
Humanitarian Committee, WFNS Chair Peripheral
Nerve & Brachial Plexus Committe, SRB

Christian Redl

Apnoe diver and multiple world record holder e.g
deep & under ice, AUT

Jan Regelsberger

Dir. Dept. Neurosurgery, Diakonissen Krankenhaus,
Flensburg, GER

Karl Rössler

Chair Dept. Neurosurgery, Vienna University, AKH,
Vienna, AUT

Thomas Schmidt

Dept. Neurosurgery, Oldenburg University,
Oldenburg, GER

Mariano Socolovsky

Chair, Dept. of Neurosurgery,
University of Buenos Aires, ARG

Keki Turel

Chair WFNS Committee on Complications in Neuro-
surgery, Emeritus Chair Dept. Neurosurgery Bombay/
Mumbai, Past President Neurological Society of India

Mike Tymianski

Faculty & Past Chair Div. Neurosurgery, Toronto Western
Hospital, CEO NONO Inc., Toronto/Ontario, CAN

Peter A. Winkler

Dir. Dept. Neurosurgery, Salzburg University, AUT

Eric Zager

Perelman School of Medicine, Dept. of
Neurosurgery, University of Pennsylvania, USA



LOCAL TEAMS

Thomas Kretschmer

Dir. Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

Hannes Rauter

Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

Alexandra Resch

Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

Jakob Kraschl

Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

Roland Keimer

Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

Lukas Koller

Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

Magnus Meschede

Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

Florin Cretu

Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

David Soldo

Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

Erika Joham

Dept. Neurosurgery & Neurorestoration,
Klinikum Klagenfurt, Klagenfurt, AUT

Rudolf Likar & Ursula Morianz-Kühnel

Dir. & Cons, Dept. Anesthesiology, Intensive care &
center for interdisciplinary pain management,
Klinikum Klagenfurt, Klagenfurt, AUT

Klaus Hausegger & Luca de Paoli

Dir. & Cons, Institute for Diagnostic & Interventional
Radiology, Klinikum Klagenfurt, Klagenfurt, AUT

Wolfgang Wandschneider & Klemen Klerin

Dir. & Cons, Dept Cardiothoracic Surgery,
Klinikum Klagenfurt, Klagenfurt, AUT

Matthias Rab & Maximilian Neuwirth

Dir & Cons, Dept. of Plastic, Aesthetic & Rec. surgery

Martin Guggi

Klagenfurt Flowing Arts (Fight Club session)

For registration, booking of events, and submission of cases/free papers please visit:

www.adrenaline-repair.at

