



SECOND ANNOUNCEMENT & PRELIMINARY SCIENTIFIC PROGRAM

Save the date

96th Anniversary
of Neurosurgery
in Serbia

81th Anniversary
of Clinic for
Neurosurgery,
Belgrade, Serbia



EACCME
SHC credits
TBA



**Under the auspices of the
President of the Republic of Serbia
H.E. Mr. Aleksandar Vucic**

WFNS 2019

INTERNATIONAL MEETING

ONE WORLD, ONE NEUROSURGERY

March 21st-24th 2019
Crowne Plaza, Belgrade



Serbian Neurosurgical Society (SNSS)

ORGANIZED BY



Italian Society of Neurosurgery (SINCH)



IN CONJUNCTION WITH
Southeast Europe Neurosurgical Society (SeENS)

ENDORSED BY

Ministry of Health, Republic of Serbia
Ministry of Education, Science and Technological Development, Republic of Serbia
School of Medicine, University of Belgrade
Serbian Academy of Sciences and Arts

TOPICS:

- Neuro-oncology
- Neurovascular
- Neurotrauma and Intensive Care
- Spine and Peripheral Nerve
- Pediatrics
- Functional and Stereotactic Neurosurgery
- Varia

WFNS PRE-MEETING COURSES

- Education
 - Endoscopy
 - Surgical Anatomy
- ### **PRE-MEETING COURSES**
- Global Neuro
 - AO Spine
 - Spine Intraoperative Navigation
- ### **MEETING COURSE**
- Besta Neurosim Center

**WFNS SPINE
COMMITTEE
CONSENSUS
CONFERENCE**

wfnsbelgrade2019.talkb2b.net





Under the auspices of the President of the Republic of Serbia H.E. Mr. Aleksandar Vucic

PRESIDENTS OF THE MEETING



Prof. Dr. Lukas Rasulic, Serbia
SNSS President, SeENS President



Prof. Dr. Marco Cenzato, Italy
SINCH President

HONORARY PRESIDENTS OF THE MEETING



Prof. Dr. Franco Servadei, Italy
WFNS President



Prof. Dr. Francesco Tomasello, Italy
WFNS
Honorary President



Prof. Dr. Paolo Cappabianca, Italy
SINCH Secretary



Prof. Dr. Kresimir Rotim, Croatia
SeENS
Honorary President

HONORARY COMMITTEE

- **Ass. Dr. Zlatibor Loncar**
Minister of Health of the Republic of Serbia
- **Mr. Mladen Sarcevic**
Minister of Education, Science and Technological Development, Republic of Serbia
- **H.E. Mr. Carlo Lo Cascio**
Ambassador Extraordinary and Plenipotentiary, Embassy of the Republic of Italy
- **Academician Vladimir Kostic**
Serbian Academy of Sciences and Arts
- **Prof. Dr. Ivanka Popovic**
Rector, University of Belgrade, Serbia
- **Academician Nebojsa Lalic**
Dean, School of medicine, University of Belgrade, Serbia
- **Prof. Dr. Zoran Radojicic**
Mayor of Belgrade

WELCOME ADDRESSES

Dear colleagues and friends,

It is my honour, privilege and pleasure to invite you to the upcoming WFNS 2019 International Meeting in Belgrade, Serbia, on March 21-24, 2019.

Hosted by the Serbian Neurosurgical Society (SNSS) and the Italian Society of Neurosurgery (SINch), in conjunction with the Southeast Europe Neurosurgical Society (SeENS), the WFNS 2019 International Meeting will bring together leading experts who share the vision of “one world, one neurosurgery”. The main topics to be explored include neuro-oncology, neurovascular, neurotrauma & intensive care, spine & peripheral nerve, pediatrics, functional & stereotactic neurosurgery, with the aim of highlighting the state-of-the-art advances and challenges in the field.

The opportunity to hold this event of utmost scientific and social importance in Belgrade is a special honour for the neurosurgical community in Serbia and a much-appreciated acknowledgement of the enhanced regional and international cooperation fostered by the Serbian Neurosurgical Society and the Southeast Europe Neurosurgical Society over the past years. We are delighted to be able to co-host it together with the Italian Society of Neurosurgery, thus reaffirming our strong and long-lasting professional and personal links with neurosurgeons from Italy.

“The noblest pleasure is the joy of understanding”, said the great Leonardo da Vinci. We are convinced that the upcoming WFNS 2019 INTERNATIONAL MEETING in Belgrade will enrich us all with the joy of understanding – in terms of pushing the boundaries of both knowledge and friendship.

Belgrade, the capital of Serbia, at the crossroads between East and West, South and North, is a vibrant city widely reputed for its open heart and mind. Over recent years, it has also proved to be a welcoming host city of a number of international neurosurgical gatherings, and we will do our best to make the WFNS 2019 INTERNATIONAL MEETING in Belgrade a particularly memorable and inspiring intellectual and social experience.

Welcome!

**Prof. Dr. Lukas Rasulic,
Serbia**
Co-President of the Meeting
SNSS President
SeENS President



WELCOME ADRESSES

Dear colleagues,

It is my great pleasure to announce, on behalf of ITALIAN Society of Neurosurgery (SINCH), the WFNS 2019 International Meeting to be held in Belgrade, Serbia, from March 21st to 24th, 2019, organized with the Serbian Neurosurgical Society (SNSS) in collaboration with the Southeast Europe Neurosurgical Society (SeENS).

Today the exchange of information and the profession updating via Web has become a daily reality, but it is precisely the opportunity for direct confrontation, the construction of fruitful relationships and useful exchanges with colleagues, the comparison and joint verification of results, that project us on a wider scene, facing an international panorama of world experts. This meeting is focused on balancing the experience of young colleagues together with the experts.

All of us have to deal with cases of increasing complexity for which often we have no certain answers and we find ourselves constantly challenged by difficult and complex clinical choices. The opportunity to confront the experts from different countries, will widen the horizon of the younger, while older colleagues will receive the due recognition. But above all it is for everyone an important and instructive moment of professional growth, where competence, experience, preparation and skills always remain a strong drive for all of us.

It is really an important moment that sees the Serbian, Italian and South-Eastern European neurosurgical societies, under the aegis of the World Federation of Neurosurgical Societies (WFNS), committed to sharing all the information and the most advanced resources in training, technology and the practice of neurosurgery.

As a president of the Italian Neurosurgical Society, it is a great honor for me to have the opportunity to share with Serbian colleagues the organization of this meeting and as a neurosurgeon, committed every day in the surgery room, I am sure that this will be a great opportunity to learn.

Prof. Dr. Marco Cenzato, Italy
Co-President of the Meeting
President of the
Italian Society of Neurosurgery



WELCOME ADRESSES

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Welcome!

Prof. Dr. Franco Servadei, Italy
President WFNS
Past President SINch
Honorary President of the Meeting



WELCOME ADDRESSES

WELCOME ADDRESS

The WFNS 2019 INTERNATIONAL MEETING, which will be held in Belgrade on March 21-24, 2019, is expected to be a memorable scientific and networking event!

I have the great honor, as Co-President, to serve this important event which will represent a novelty in the European Neurosurgical Scenario as a result of an exciting and renewed synergy between Serbian, Italian and South east European Neurosurgical Societies.

There is to some extent a common ancient history between Italy and Serbia, named Moesia Superior in the Roman era lasting about 400 years.

It was the birthplace of seventeen Roman Emperors, including Constantine the Great. There is evidence of this Roman presence in some archeological sites as Palace of Galerius, Gamzigrad-Romuliana, inscribed in UNESCO's world heritage list.

It is noteworthy that the President of WFNS has approved this joint project in order to have an high standing Neurosurgical platform where these Societies will share the latest advances with the global Neurosurgical community!

This event witnesses that the relationships between Serbian, Italian and South eastern Neurosurgery were strengthened in recent years and their role was growing up in the EANS as well in the WFNS initiatives.

All these scientific organizations are working hard to join the best resources and promote the most advanced opportunities in the area of Education, Research and Care in order to benefit patients worldwide!

Belgrade, with its great neurosurgical tradition and its geographical position of cultural connection between East and West, is an ideal venue for this Meeting. This will open new perspectives in sharing neurosurgical knowledge and meeting the healthcare demands in different settings.

I would like to emphasize the educational impact of the pre-meeting Courses with learning objectives which will be fulfilling the expectations of the young Neurosurgeons and even more the Mission of WFNS.

I had the privilege to appreciate the warm hospitality of Belgrade Neurosurgical Team since the time of my participation at the first SeENS Congress. I am absolutely confident that colleagues and friends will find the nice atmosphere I always appreciated in Belgrade!

Definitely, there are all the ingredients to make the WFNS 2019 INTERNATIONAL MEETING as an exciting and unforgettable event!

**Prof. Dr. Francesco Tomasello,
Italy**

WFNS Honorary President
Honorary President of the Meeting



WELCOME ADRESSES

It is with great pleasure to announce the forthcoming WFNS 2019 INTERNATIONAL MEETING – organized by Serbian Neurosurgical Society (SNSS), Italian Society of Neurosurgery (SINch), and Southeast Europe Neurosurgical Society (SeENS)- to be held in Belgrade in March 21-24, 2019.

On behalf of SINch, I would like to kindly invite you to participate to this extraordinary event; this time the congress will feature an incredible exchange of scientific information at the highest level and will provide a glimpse over the most advanced neurosurgical treatments and care along with recent innovations. This sounds timely for the modern neurosurgical scenario, boosted by easier diffusion of ideas and methods throughout the new technologies. Innovation is the key for progress and no doubt that neurosurgery fits this requirement.

This Congress is going to take place in the “white city”, the scientific and multicultural capital of Serbia. This city is an emblematic example of optimization of results, through perseverance and devotion for working. All of us are strongly tied to the Belgrade group, and the past, present and future collaborations remain dedicated to build bridges of knowledge and experience for keeping a scientific, professional, academic and social networking.

I trust in the Serbian hospitality and in our friendship for having a memorable social and scientific moment.

Thank you.

Prof. Dr. Paolo Cappabianca,
Italy
SINCH Secretary
Honorary President of the Meeting



WELCOME ADDRESSES

Dear Colleagues, Friends, Ladies and Gentlemen,

It is my great pleasure and honor to announce and invite You to the WFNS 2019 INTERNATIONAL MEETING, hosted by Serbian Neurosurgical Society (SNSS), Italian Society of Neurosurgery (SINch) in conjunction with the Southeast Europe Neurosurgical Society (SeENS) and taking place in Belgrade, Serbia, on March 21st -24th 2019.

The Southeast Europe Neurosurgical Society (SeENS, www.seens.eu) has been founded in 2012. In a 5 years period (2012-2017) SeENS has become an affiliated member of the European Association of Neurosurgical Societies (EANS) and full member of the World Federation of Neurosurgical Societies (WFNS). SeENS has succeeded to rebuilt liasons and to make new once after a period of almost 20 years of poor communication between colleagues in the SE Europe region. Currently SeENS is gathering neurosurgeons from 14 countries of the Southeast Europe region and Turkey. SeENS is recognized as a very active Society organizing or co-organizing up to 10 events each year.

Co-organizing the WFNS INTERNATIONAL MEETING represents a great honor and privilege for our Society, but also highlights the confidence of WFNS in our Society being able to participate in organization of such an important event.

Concerning the attractiveness of invited speakers at this WFNS INTERNATIONAL MEETING we expect a strong academic and high social level event.

This Meeting will have the patronage and support of all important State and Academic Institutions of Republic of Serbia.

It is my great honor to invite You to participate at this WFNS INTERNATIONAL MEETING and to discover and enjoy the beautiful city of Belgrade, capital of Serbia, the only European city built on the confluence of two great rivers, a city that «never sleeps».

I cordially invite You to Belgrade, Serbia to experience and share noteworthy scientific and social moments during the WFNS INTERNATIONAL MEETING 2019.

Sincerely,

Prof. Dr. Kresimir Rotim,
Croatia
SeENS Honorary President
Honorary President of the Meeting



ORGANIZING COMMITTEE



**Prof. Dr. Lukas Rasulic,
Serbia**



**Prof. Dr. Marco Cenzato,
Italia**



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Co-Chairman of the Scientific Committee



Prof. Dr. Ioan Stefan Florian, Romania
WFNS Second Vice-President at Large
SeENS Vice-President
Co-Chairman of the Scientific Committee



Dr. Francesco Di Meco, Italy



Dr. Natale Francaviglia, Italia



Prof. Dr. Vaso Antunovic, Serbia



Prof. Dr. Miroslav Samardzic, Serbia



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 Kiriş Talat, Turkey
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 Kliot Michael, USA
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 Konovalov Nikolay, Russia
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 Lavano Angelo, Italy
 Locatelli Davide, Italy
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 Mahan Mark, USA
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 Schroeder Henry, Germany
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 Splavski Bruno, Croatia
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 Visocchi Massimiliano, Italy
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 Vukic Miroslav, Croatia
 Vulekovic Petar, Serbia
 Watts Colin, UK
 Wahjoepramono Eka Julianta, Indonesia
 Westphal Manfred, Germany
 Winkler Peter, Austria
 Xhumari Artur, Albania
 Yaman Onur, Turkey
 Yampolsky Claudio, Argentina
 Zabihyan Samira, Iran
 Zager Eric, USA
 Zileli Mehmet, Turkey



21st, Thursday	22nd, Friday	All days	23rd, Saturday	24th, Sunday								
Registration	Premeeeting Courses	Besta NeuroSim Center Simulation	Plenary-2	Main Topics-9								
				Main Topics-10								
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				Main Topics-5								
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*Save
the date*

96th Anniversary
of Neurosurgery
in Serbia
81th Anniversary
of Clinic for
Neurosurgery,
Belgrade, Serbia



**EACCME
SHC credits
TBA**

WFNS 2019 INTERNATIONAL MEETING

ONE WORLD, ONE NEUROSURGERY

**March 21st-24th 2019
Crowne Plaza, Belgrade**

PRE-MEETING COURSES

wfnsbelgrade2019.talkb2b.net





WFNS PRE-MEETING COURSES

March 21st, 2019

- **EDUCATION**
Chairmen of the WFNS Education & Training Committee:
Prof. Dr. Isabelle Germano and Prof. Dr. Hiroyuki Kinouchi
Venue: Hotel Crowne Plaza Belgrade
- **ENDOSCOPY**
Chairmen of the WFNS Neuroendoscopy Committee
Prof. Dr. Mahmood Qureshi and Dr. Chandrashekhar E. Deopujari
Venue: University of Belgrade, Institute for Anatomy "Niko Miljanic"
- **SURGICAL ANATOMY**
Chairmen of the WFNS Neurosurgical Anatomy Committee:
Prof. Dr. Vladimir Benes and Prof. Dr. Imad N. Kanaan
Venue: Hotel Crowne Plaza Belgrade



WFNS EDUCATION PRE-MEETING COURSE

“Updates in Brain Tumors and Trauma”

WFNS Education Committee Chair: Isabelle M. Germano, MD, MBA

7:30-8:00 Introductory remarks
Franco Servadei, WFNS President
Lukas Rasulic, Co-President of the Meeting
Isabelle Germano, WFNS Education Committee Chair

BRAIN TUMORS

Moderator: Lukas Rasulic and Isabelle Germano

**Each lecture will be followed with Q&A- discussion 10 min*

8:00-8:20	DNA methylation-based classification of CNS tumors	Manfred Westphal (Germany)
8:20-8:50	Molecular and other advanced imaging of brain tumors	Colin Watts (UK)
9:00-9:20	Awake craniotomy and intraoperative resection techniques	Isabelle Germano (USA)
9:30-9:50	Adjuvant treatments of primary brain tumors	Petar Vulekovic (Serbia)
10:00-10:30	Coffee Break	
10:30-10:50	Approaches to intraventricular tumors	Ekkard Kasper (Canada)
11:00-11:20	Skull base surgery: CSF Leak prevention and repair	Christian Matula (Austria)
11:30-11:50	Brain stem tumors	Miguel Arraez Sanchez (Spain)
12:00-12:20	Pediatric Tumors	Frederick Boop (USA)
12:30-12:50	TBA	
13:00-14:00	Lunch	

BRAIN AND SPINE TRAUMA

Moderator: Franco Servadei and Mehmet Zileli

**Each lecture will be followed with Q&A- discussion 10 min*

14:00-14:20	Advanced images of TBI	Alexander Potapov (Russia)
14:30-14:50	Adult Head Trauma	Franco Servadei (Italy)
15:00-15:20	Pediatric head trauma	David Adelson (USA)
15:30-15:50	Trauma system evaluation in developing countries	Fatos Ollidashi (Albania)
16:00-16:30	Coffee break	
16:30-16:50	Brachial Plexus Surgery: early or delayed	Lukas Rasulic (Serbia)
17:00-17:20	Intra-operative CT Scan: always necessary	Maurizio Fornari (Italy)
17:30-17:50	Cervical Spine trauma	Mehmet Zileli (Turkey)
18:00-18:20	Cranial and spine missile injuries	Tariq Khan (Pakistan)
18:30-18:50	Spine trauma education for the young neurosurgeon	Francesco Costa (Italy)

Venue: Hotel Crowne Plaza, Belgrade

This course has limited number of 40 participants based on the principle first come first served.



WFNS ENDOSCOPY PRE-MEETING COURSE

**WFNS Neuroendoscopy Committee Chair:
Dr. Chandrashekhar E. Deopujari**

08.15	Welcome and Introduction of faculty	P. Cappabianca, C. Deopujari
08.30-09.30	Instructional talks:	Moderators: A. Grotenhuis, P. Cappabianca
08.30	Anatomy 1: Osteology of Nose, PNS and Midline Skullbase and importance of bony landmarks and blood supply	M. Milisavljevic Belgrade
08.45	Anatomy 2: Endoscopic anatomy for endonasal transsphenoidal approach and principles of reconstruction	N. Shah
09.00	Principles and Nuances of Endoscopic Pituitary surgery	P. Cappabianca
09.15	Cavernous Sinus and ICA management	Daniel Kelly
09.30-10.30	Dissection Demo	N. Shah, D. Solari and D. Kelly
10.30-12.30	Hands on for delegates Supervised by faculty	
12.30-13.15	Lunch	
13.15- 14.30	Instructional talks: Moderators	H. Schroeder, C. Deopujari
13.15	Extended Approaches: corridors	A. Grotenhuis
13.15	Endonasal approaches to Craniopharyngiomas	D. Locatelli
13.30	Endonasal approaches to Meningiomas	F. Gentili
13.45	Endonasal Chordomas and other clival lesions	H. Schroeder
14.00	Endonasal Approach to CV junction	D. Solari
14.15	Demo dissection: ACF, Parasellar, Clivus	M. Milicevic, H Schroeder, A Grotenhuis
15.15-17.30	Hands on dissection for delegates	

Venue: University of Belgrade, School of Medicine, Institute for Anatomy “Niko Miljanic”

This course has limited number of 20 participants, based on the principle first come first served.



WFNS NEUROSURGICAL ANATOMY COMMITTEE PRE-MEETING COURSE: „CRANIAL NERVES“

**WFNS Neurosurgical Anatomy Committee, Chair:
Prof. Dr. Vladimir Benes**

07.55-08.00	Introduction	Vladimir Benes
08.00-09.30	Anatomy of cranial nerves	Thomas Santarius, Pablo Gonzales-Lopez
09.30-09.50	Relation of CN to brain vessels	Igor Lima Maldonado
09.50-10.10	Imaging of cranial nerves	Arya Nabavi
10.10-10.40	Break	
10.40-11.00	Spinal cord and nerve roots	Vicotr Hugo Perez, Kazadi Kalangu
11.00-11.20	Tumor cases and related anatomy	Eka Wahjoepramono
11.20-11.40	Cranial nerves in Dolenc approach	Iype Cherian
11.40-12.00	Optic nerves in Suprasellar Tumor surgery	Imad Kanaan
12.00-12.20	Preserving the olfactory nerve	Thomas Santarius
12.20-13.30	Lunch	
13.30-13.50	Neurovascular conflict	Keki Turel
13.50-14.10	Schwannomas	Roy Thomas Daniels
14.10-14.30	Ependymomas	Ekkehard Kasper
14.30-15.00	Posterior fossa meningiomas	Vladimir Benes
15.00-15.20	CC junction and foramen jugulare	Thomas Santarius
15.20-15.40	Intramedullary tumors	Julius July
15.40-16.00	Break	
16.00-18.00	Case discussion: 10 mins each	

Venue: Hotel Crowne Plaza Belgrade

This course has limited number of 40 participants, based on the principle first come first served.

PRE-MEETING COURSES

March 21st, 2019

Registration 10:00h

- **GLOBAL NEURO**
Prof. Dr. Fatos Oлдashi (Albania), Prof. Dr. Andras Buki (Hungary),
Prof. Dr. Maurizio Iacoangeli (Italy)
Venue: Hotel Crowne Plaza Belgrade
- **AO SPINE**
Prof. Dr. Alessandro Ducati
Venue: Hotel Crowne Plaza Belgrade
- **SPINE INTRAOPERATIVE NAVIGATION**
Venue: Hotel Crowne Plaza Belgrade



GLOBAL NEURO COURSE - NEUROTRAUMA

Goal of the course

The Global Neuro Course-Neurotrauma covers the theoretical basis and practical principles for managing neurotrauma, addressing complications, and performing state-of-the-art reconstructive surgery.

Target participants

The course has been developed for surgeons who manage neurotrauma and reconstruction and who have a strong interest in these fields. It has a focus on interdisciplinary care and is appropriate for neurosurgeons, CMF, ENT, trauma, and other surgeons.

Course objectives

By completing the course, participants will be better able to:

- Apply current classification systems and guidelines in neurotrauma
- Manage neurotrauma in adult, pediatric, and polytrauma patients
- Conduct advanced neuromonitoring
- Plan and perform appropriate triage strategies.

Course description

This course covers the current best strategies and considerations for managing neurotrauma patients and is based on competencies defined in GlobalNeuro's curriculum. The content is delivered using multiple methods. Comprehensive lectures concentrate on the understanding of core material.

Interactive case presentations further deepen this knowledge and enrich the discussion in trauma management and involve preselected cases submitted by participants in advance. Such case-based discussions link the lecture material with the clinical problems encountered in everyday practice.

Venue: Hotel Crowne Plaza, Belgrade

This course has limited number of 40 participants based on the principle first come first served.



AO SPINE ADVANCED SEMINAR - CERVICAL SPINE

Chairperson:
Alessandro Ducati, Turin, Italy

Faculty :
Giuseppe Barbagallo, Catania, Italy
Bernhard Meyer, Munich, Germany
Claudius Thome, Innsbruck, Austria
Stefano Romoli, Firenze, Italy

Preliminary program - TBA

Venue: Hotel Crowne Plaza, Belgrade

This course has limited number of 40 participants based on the principle first come first served.



SPINE INTRAOPERATIVE NAVIGATION

March 21st, 2019 • 09:00 AM – 16:00 PM

Workshop presented by: Southeast Europe Neurosurgical Society (SeENS)

Goal of the Course

The Intraoperative Spine Navigation Course covers theoretical and practical principles of using the Spinal Navigation system during spine fusion and instrumentation surgery.

Course Description

This workshop seeks to fulfill the need of neurosurgeons, orthopedics, neurologists, physiatrists, and interested allied health practitioners to improve the fund of knowledge and to increase competence in evaluating, counseling, managing, and/or referring patients who present with low back spine complaints. The course will include lectures, question & answer discussions, along with practical part of using spinal navigation system and instrumentation on models.

Course Objectives

At the conclusion of this workshop, participants will be able to optimally counsel, diagnose and manage patients with the following spine conditions: Lumbar stenosis, lumbar spondylolisthesis, failed back surgery syndrome, determine appropriate patients to refer to surgery, order appropriate diagnostic imaging familiarize with minimal invasive spine surgery with the use of spinal navigation.

COURSE DIRECTOR

Professor Krešimir Rotim, MD, PhD

Head, Department of Neurosurgery
Sestre milosrdnice UHC, Zagreb, Croatia

COURSE CO-DIRECTOR

Asist. Prof. Tomislav Sajko, MD, PhD

Department of Neurosurgery
Sestre milosrdnice UHC, Zagreb, Croatia

FACULTY

Professor Mehmet Zileli

WFNS Spine Committee Chairman
Izmir, Turkey

Professor Francesco Costa

Head Spine Oncology Surgery
Humanitas Research Hospital, Milano, Italy

FACULTY

Mr. Csaba Eles,

Product Manager Neurosurgery
Budapest, Hungary



PROGRAM

08:00–09:00	Registration	
09:00–09:10	Welcome and Announcements	
09:10–09:40	TBA	Professor Krešimir Rotim
09:40–10:10	TBA	Asist Professor Tomislav Sajko
10:10–10:40	TBA	Professor Mehmet Zileli
10:40–11:00	Discussion	
11:00–11:30	Coffee break	
11:30–12:00	TBA	Mr. Csaba Eles
12:00–12:30	TBA	
12:30–13:00	TBA	Professor Francesco Costa
13:00–13:30	Discussion	
13:30–14:00	Break	
14:00–15:30	Practical workshop	
15:30–16:00	Discussion and adjourn	

Venue: Hotel Crowne Plaza, Belgrade

This course has limited number of 40 participants based on the principle first come first served.



BESTA NEUROSIM CENTER COURSE

IST International Neurosurgery Simulation Course at WFNS

March 21st-24th, 2019

The WFNS, in collaboration with the Besta NeuroSim Center, are proud to announce the upcoming event as the first edition of the International Neurosurgery Simulation Course held within the WFNS International Meeting.

The Besta NeuroSim Center is the first and largest European simulation and training center entirely dedicated to neurosurgery. Virtual reality simulation with haptic feedback is endowed in the top-notch simulators available at the center in order to allow residents to rehearse and operate virtual human brain in a 3D virtual reality setting. This is probably the future of neurosurgical training, because it may allow residents to improve their skills in a safe environment, without harming patients because of the operator's inexperience.

In this proposed course, trainees can simulate both interventions carried out under the microscope (e.g. removal of a brain tumor) and neurosurgical operations which do not require the use of a microscope (e.g. EVD placement). There are only 36 seats for the course, if you want to participate please contact Dr. Roberta Ayadi ASAP: roberta.ayadi@istituto-besta.it, Alessandra Rocca: alessandra.rocca1994@gmail.com or Congress secretariat at wfns2019belgrade@snss.org.rs

TOTAL COURSE HOURS: 8 (4 per day)
TOTAL N° OF PARTICIPANTS: 36 (18 per day)

Moreover, the Simulation Centre at the congress venue will be open from 09.00 am until 12.00 pm and from 02.00 pm until 06.00 pm to showcase the simulators and allow all residents and attending neurosurgeons to briefly try our simulators.

THE SIMULATORS

NEUROVR

It allows any neurosurgeon (resident or attending) to simulate in a virtual reality and three-dimensional environment, many neurosurgical interventions carried out under the operative microscope, such as the removal of brain tumours, or endoscopic procedures within the cerebral ventricles or transnasosphenoidal. NeuroVR is designed for training neurosurgeons, using the same principle of pilot training in aircrafts. This is the most accurate and realistic neurosurgical simulator available today. The system provides an automatic registration of each candidate's performance in order to see if his/her technical skills improves and track the learning curve.

IMMERSIVE TOUCH

Immersive Touch can be used for planning interventions, so as to better define the times and access corridors to the areas to be treated, or more practical procedures on patients such as placing an external ventricular drain. The simulator provides a three-dimensional view of images completely in digital graphics and it is a "high fidelity" simulation system endowed with visual and tactile feedback.

USIM

It is an intraoperative Ultrasound Simulation app that can be downloaded on any smartphone that becomes a virtual probe to simulate and rehearse intraoperative ultrasound on a library of cases that were previously acquired at C. Besta Institute.

SURGICAL THEATER

CT and MRI scans are used to reconstruct a patient-specific 3D model that helps neurosurgeons to pre-operatively evaluate and rehearse the operative case, decrypt the surgical anatomy and determine the best corridor to follow, practice different surgical procedures. It can be connected to the intraoperative navigation system in the OR and it allows case-specific rehearsal, performing some neurosurgical procedures (e.g. aneurysm clipping), along with post-operative debriefing.

SCHEDULE

DAY 1

Welcoming Presentation.

Presentation and introduction to simulation in neurosurgery and its latest developments. Presenters: Prof DiMeco, Prof Meling, Prof Tessitore, Prof Del Maestro, Prof Grotenhuis, and Prof Perin.

Four-hour course: 18 participants

After the course, the simulation centre is open to the public.

DAY 2

Four-hour course: 18 participants

After the course, the simulation centre is open to the public.

ACTIVITIES' SCHEDULE

The candidates will be asked to perform different tasks:

- Tumor (meningioma) debulking case at NeuroVR.

Different parameters will be assessed: percentage of tumor removed, percentage of brain parenchyma removed, strength applied to the tissue, volume of blood lost.

- External ventricular drain (EVD) at ImmersiveTouch

Different parameters will be assessed: number of attempts needed to reach the ventricles, accuracy in positioning the catheter.

- Visualization of an MCA left aneurysm with the aid of virtual reality glasses and clipping of that aneurysm at Surgical Theatre

- Identification of ten anatomical structures, displaying the brain in B-mode ultrasound at USim

The candidates will be evaluated in their ability to orientate using b-mode ultrasound, before and after the help of MRI images of the case

Venue: Hotel Crowne Plaza, Belgrade

This course has limited number of 20 participants per day based on the principle first come first served.



WFNS SPINE COMMITTEE CONSENSUS CONFERENCE

Friday, March 22nd, 2019

Chairmen of the WFNS Spine Committee:

Prof. Dr. Mehmet Zileli
Prof. Dr. Michael Fehlings
Prof. Dr. Daniel Hoh

“Lumbar Spinal Stenosis” consensus meeting

Meeting description: A half day program with 6 speakers summarizing the Milan meeting's panel topics. Each speaker will summarize the previous speakers' documents and place exact statements of our first decisions.

After 20 minutes talks, each topic will be discussed by all participants (15 minutes discussion).

Then the statements are voted by the WFNS spine committee members only. (5 minutes voting and declaration of the results)

PROGRAM

- | | |
|--|--------------------|
| 1: Natural course and diagnosis of lumbar spinal stenosis | Mehmet Zileli |
| Discussion | |
| Declaration of the consensus statements | |
| 2: Conservative treatment or follow up | Maurizio Fornari |
| Discussion | |
| Declaration of the consensus statements | |
| 3: Percutaneous techniques for lumbar spinal stenosis | Scott C. Robertson |
| Discussion | |
| Declaration of the consensus statements | |
| 4: Decompressive surgery for lumbar spinal stenosis | Francesco Costa |
| Discussion | |
| Declaration of the consensus statements | |
| 5: Fusion surgery for lumbar spinal stenosis | Salman Sharif |
| Discussion | |
| Declaration of the consensus statements | |
| 6: Mobility preserving surgeries for lumbar spinal stenosis | Ben Roitberg |
| Discussion | |
| Declaration of the consensus statements | |

Venue: Hotel Crowne Plaza, Belgrade



*Save
the date*

96th Anniversary
of Neurosurgery
in Serbia
81th Anniversary
of Clinic for
Neurosurgery,
Belgrade, Serbia



**EACCME
SHC credits
TBA**

WFNS 2019 INTERNATIONAL MEETING

ONE WORLD, ONE NEUROSURGERY

**March 21st-24th 2019
Crowne Plaza, Belgrade**

PRELIMINARY SCIENTIFIC PROGRAM

***Preliminary scientific program is subject to change.**

wfnsbelgrade2019.talkb2b.net





Thursday, March 21st, 2019

08:00-19:00 PRE-MEETING COURSES

19:30-22:00 OPENING CEREMONY AND WELCOME RECEPTION
Venue: Hotel Crowne Plaza

Friday, March 22nd, 2019

08:00-08:15 Opening remarks

Hall I

PLENARY SESSION I

Chairs: Lukas Rasulic, Marco Cenzato

Hall I

08:15-08:30 Modern aspects of minimally invasive spinal surgery, ICT and navigation
Nikolay Konovalov

08:30-08:45 From simulation through cadaver training to patient care: a safe way to educate spinal surgeons
Karl Schaller

08:45-09:00 Visual function preservation in microsurgical management of parasellar meningiomas
Francesco Tomasello

09:00-09:15 The revolution of DAVF treatment in the neurovascular section
Ling Feng

09:15-09:30 Neurosurgical management of craniopharyngiomas
Rudolf Fahlbusch

09:30-10:30 GLOBAL NEUROSURGERY SESSION
Gail Rosseau, Franco Servadei

10:30-11:00 Coffee Break



MT-I

PEDIATRICS

Chairs: Souad Bakhti, Graham Fieggen

Hall I

- 11:00-11:15 Shuntscope in pediatric patients**
Joachim Oertel
- 11:15-11:30 Pituitary Adenomas in pediatric age: an endoscopic approach**
Davide Locatelli
- 11:30-11:45 Breakthroughs in Medulloblastoma management. Can it be cured?**
Alexandru-Vlad Ciurea
- 11:45-12:00 Surgical approach to thalamic tumors**
Memet Özek
- 12:00-12:15 Spinal tumors in children**
Concezio Di Rocco
- 12:15-12:30 Rosette forming glioneuronal tumors of the 4th ventricle**
Nejat Akalan
- 12:30-12:45 Management of Spina Bifida**
Graham Fieggen
- 12:45-13:00 Long-term surgical results on craniopharyngiomas**
Abdeslam El Khamlichi
- 13:00-14:00 Lunch**

TUMOR (OP-I)

Chairs: Maria Laura Del Basso De Caro, Danica Grujicic

Hall I

- 14:00-14:15 KEYNOTE LECTURE: What is new in WHO classification?**
Maria Laura Del Basso De Caro
- 14:15-14:30 KEYNOTE LECTURE: When should we reoperate glioblastoma?**
Danica Grujicic
- 14:30-14:45 KEYNOTE LECTURE: Surgical treatment of the lateral ventricle tumors**
Vincenzo D'Angelo
- 14:45-14:55 Hybrid visualization systems and floresanas guided microsurgery for high grade glialtumors**
Y. Sukru Caglar
- 14:55-15:30 ORAL PRESENTATIONS**
- 15:30-15:45 Coffee break**



WOMEN IN NEUROSURGERY

Chairs: Souad Bakhti, Ling Feng, Yoko Kato

- 15.45-15.52 Association of opium addiction with rupture of intracranial aneurysms**
Samira Zabihiyan, Iran
- 15.52-15.59 Pineal region tumors: surgical strategy**
Danica Grujicic, Serbia
- 15.59-16.06 Pitfalls and avoidance of complications in neuroendoscopy**
Najia El Abbadi, Morocco
- 16.06-16.13 Multidisciplinary treatment of brain metastases**
Isabelle Germano, USA
- 16.13-16.20 Women in neurosurgery: a young italian neurosurgeon**
Teresa Somma, Italy
- 16.20-16.26 Men's Contribution for Development of WINS**
Hari Chandran, Malaysia

TUMOR (OP-5)

Chairs: Milos Jokovic, Ibrahim Omerhodzic

Hall 1

- 16:30-16:45 KEYNOTE LECTURE: Treatment of low grade glioma**
Milos Jokovic
- 16:45-17:00 KEYNOTE LECTURE: Cerebellar gliomas**
Ibrahim Omerhodzic
- 17:00-17:15 KEYNOTE LECTURE: Clinoid area meningiomas, lessons from 48 personal cases**
Mentor Petrela
- 17:15-17:25 Molecular cellbiology of glioma invasion**
Ather Enam
- 17:25-18:00 ORAL PRESENTATIONS**

MT-2

TUMOR

Chairs: Miguel Arraez, Karl Schaller

Hall 2

- 11:00-11:15 Surgical management of petrous apex lesions**
Miguel Arraez
- 11:15-11:30 Endonasal approach to craniopharyngiomas**
Luigi Cavallo

- 11:30-11:45 Meningiomas of the CP angle**
Panagiotis Selviaridis
- 11:45-12:00 Cranioorbital pretemporal approach to sellar/juxtaseilar lesions**
Kenan Arnautovic
- 12:00-12:15 Long-term morbidity of meningioma**
Tiit Mathiesen
- 12:15-12:30 Management of foramen magnum Meningioma**
Najia El Abbadi Bendahane
- 12:30-12:45 A Variant of The Subfrontal Approach in The Management of Giant Anterior Skull Base Meningiomas**
Natale Francaviglia
- 12:45-13:00 Management of giant pituitary adenomas**
Nicolas Foroglou
- 13:00-14:00 Lunch**

SPINE (OP-2)

Chairs: Tito Arcadio Perilla Cepeda, Reza Ghadirpour

Hall 2

- 14:00-14:15 KEYNOTE LECTURE: Spinal intramedullary tumors**
Hakan Emmez
- 14:15-14:30 KEYNOTE LECTURE: Intraoperative monitoring in spinal cord tumor surgery**
Reza Ghadirpour
- 14:30-14:45 KEYNOTE LECTURE: Management of Complications after transpedicular fixations**
Tito Arcadio Perilla Cepeda
- 14:45-15:30 ORAL PRESENTATIONS**
- 15:30-15:45 Coffee break**

SPINE (OP-6)

Chairs: Nebojsa Stojanovic, Massimiliano Visocchi

Hall 2

- 16:30-16:45 KEYNOTE LECTURE: Indications for reconstructive surgery of the cervical spine**
Nebojsa Stojanovic
- 16:45-17:00 KEYNOTE LECTURE: 360° surgical approaches to the craniovertebral junction: a fearless revolution around the skull base**
Massimiliano Visocchi
- 17:00-17:15 KEYNOTE LECTURE: Sagittal Balance: It's importance in spine surgery**
Onur Yaman
- 17:15-18:00 ORAL PRESENTATIONS**

MT-3

SPINE

Chairs: Jesus Lafuente, Roberto Delfini

Hall 3

- 11:00-11:15 New classification for lumbar microinstability: clinical and radiological results at 2 yrs follow up**
Roberto Delfini
- 11:15-11:30 Long Term Results with Minimally Invasive Plif In Degenerative Lumbar Spondylolisthesis**
Matjaz Vorsic
- 11:30-11:45 Combined anterior and posterior approach for complex cervical cases**
Maurizio Fornari
- 11:45-12:00 The surgery of intramedullary spinal cord tumors in the era of neuromonitoring**
Francesco Sala
- 12:00-12:15 Cervical myelopathy: how to identify best responders to surgery**
Enrico Tessitore
- 12:15-12:30 Cervical Intramedullary tumors and its mimicks; How to avoid Maslows Hammer?**
Suresh Nair
- 12:30-12:45 Skeptical approach to the spine surgery**
Michalakis Spyrou
- 12:45-13:00 Decision making in spine surgery**
Kantha Rasalingam
- 13:00-14:00 Lunch**

VASCULAR (OP-3)

Chairs: Marco Fontanella, Harjinder Bhatoe

Hall 3

- 14:00-14:15 KEYNOTE LECTURE: Cerebral Cavernomas: treatments and problems**
Marco Fontanella
- 14:15-14:30 KEYNOTE LECTURE: Surgery for Cerebral Arteriovenous Malformations**
Harjinder Bhatoe
- 14:30-14:45 KEYNOTE LECTURE: Neurovascular conflicts**
Barbara Masotto
- 14:45-14:55 Intraoperative flow evaluation in vascular neurosurgery**
Paolo Ferrolì
- 14:55-15:30 ORAL PRESENTATIONS**
- 15:30-15:45 Coffee break**

VASCULAR (OP-7)

Chairs: Eka J Wahjoepramono, Talat Kiriş

Hall 3

- 16:30-16:45 KEYNOTE LECTURE: Wisdom in management of Giant Aneurysms**
Eka J Wahjoepramono
- 16:45-17:00 KEYNOTE LECTURE: Clipping Strategies in Complex Aneurysms**
Talat Kiriş
- 17:00-17:15 KEYNOTE LECTURE: Surgery of MCA Aneurysm**
Abdessamad El Azhari
- 17:15-18:00 ORAL PRESENTATIONS**

MT-4

GENERAL

Chairs: Ihsan Solaroglu, Amir Samii

Hall 4

- 11:00-11:15 Arachnoid membrane in meningioma surgery**
Vladimir Benes
- 11:15-11:30 Reconstructive Neurosurgery After TBI**
Alexander Potapov
- 11:30-11:45 First Experiences with a Dedicated Hybrid OR for Spine Surgery**
Amir Samii
- 11:45-12:00 Cerebral Revascularization Surgery: Techniques and Applications**
Yong Kwang Tu
- 12:00-12:15 Posterior Fossa Pilocytic Astrocytomas**
Domenico D'avella
- 12:15-12:30 Minimally invasive surgery in spinal mets**
Claudio Yampolsky
- 12:30-12:45 Extent of surgical resection of malignant astrocytoma of the spinal cord**
Vincenzo Paterno
- 12:45-13:00 Moyamoya, surgical experience**
Artur Xhumari
- 13:00-14:00 Lunch**



TUMOR (OP-4)

Chairs: Tomislav Sajko, Giuseppe Talamonti

Hall 4

- 14:00-14:15 KEYNOTE LECTURE: Temporal DNET: seizure and functional outcome**
Tomislav Sajko
- 14:15-14:30 KEYNOTE LECTURE: Neuroendoscopy and combined therapy in ventricular tumors**
Piero Andrea Oppido
- 14:30-14:45 KEYNOTE LECTURE: Endoscopic endonasal approach to treat craniopharyngiomas**
Diego Mazzatenta
- 14:45-14:55 Olfactory groove meningiomas - results of transcranial resection in relation to imaging-based selection criteria for endoscopic approach**
Thomas Santarius
- 14:55-15:30 ORAL PRESENTATIONS**
- 15:30-15:45 Coffee break**

TRAUMA (OP-8)

Chairs: Stefano Signoretti, Imad Talahma

Hall 4

- 16:30-16:45 KEYNOTE LECTURE: Consensus Conference on Cranioplasty**
Corrado Iaccarino
- 16:45-17:00 KEYNOTE LECTURE: Correct decompressive craniectomy when no ICP monitoring is available**
Imad Talahma
- 17:00-17:15 Avoidance of complications in spine trauma**
Keki Turel
- 17:00-18:00 ORAL PRESENTATIONS**
- 08:15-18:00 Besta NeuroSim Center Simulation**

Hall TBA

Saturday, March 23rd, 2019

PLENARY SESSION 2

Chairs: Kresimir Rotim, Francesco Tomasello

Hall I

- 08:00-08:15** **Problems of geriatric spine surgery**
Mehmet Zileli
- 08:15-08:30** **The History of Changes in Nerve Surgery Since World War II**
David Kline
- 08:30-08:45** **Clipping aneurysms - lessons I have learnt after over 1000 operated aneurysms**
Ioan Stefan Florian
- 08:45-09:00** **Lateral skull base meningiomas: Philosophy and Techniques**
Jacques Morcos
- 09:00-09:15** **Endoscopic endonasal approach for anterior fossa meningiomas**
Paolo Cappabianca
- 09:15-09:30** **Craniocervical junction chordomas**
Sebastien Froelich
- 09:30-09:45** **Treatment options for intracranial vessel dissections**
Alexandros Andreou
- 09:45-10:00** **New insights into the surgical management of diffuse low-grade gliomas**
Hugues Duffau
- 10:00-10:15** **Education in spine surgery in the XXI century**
Jesus Lafuente
- 10:15-10:30** **Brain Mapping for Tumors in Eloquent Areas**
Isabelle Germano
- 10:30-11:00** **Coffee break**

MT-5

VASCULAR

Chairs: Edgardo Spagnuolo, Abdessamad El Ouahabi

Hall I

- 11:00-11:15** **New Technologies in Aneurysm Surgery**
Jorge Mura
- 11:15-11:30** **Surgery of complex aneurysms**
Edgardo Spagnuolo
- 11:30-11:45** **Management of ruptured intracranial aneurysms in the Post Isat era: current indications and place of microsurgical clipping**
Abdessamad El Ouahabi



- 11:45-12:00 Giant aneurysms multimodal treatments**
Marco Cenzato
- 12:00-12:15 Future challenges of vascular microsurgery**
Kresimir Rotim
- 12:15-12:30 New endovascular aneurysm technology**
Daniel Hoit
- 12:30-12:45 The Role of Intraoperative MRI in Neurovascular Surgery: Our Experience**
Antonino Raco
- 12:45-13:00 ICA blister aneurysms**
Torstein Meling
- 13:00-14:00 Lunch**

TUMOR (OP-9)

Chairs: Petar Vulekovic, Paolo Ferrolì

Hall I

- 14:00-14:15 KEYNOTE LECTURE: Role of stereotactic biopsy of brain tumors in neurosurgical practice**
Petar Vulekovic
- 14:15-14:30 KEYNOTE LECTURE: Aggressive multimodal management of brain metastasis**
Alfredo Conti
- 14:30-14:45 KEYNOTE LECTURE: Skull base and cranio-facial approaches to minimize approach-related morbidity for intradural neoplastic and vascular lesions**
Maurizio Iacoangeli
- 14:45-14:55 Anterolateral skullbase approaches**
Iype Cherian
- 14:55-15:05 Brain metastasis- current therapeutic options**
Vladimir Papic
- 15:05-15:30 ORAL PRESENTATIONS**
- 15:30-15:45 Coffee break**

YOUNG NEUROSURGEONS FORUM

Chairs: Andreas Demetriades, TBA

Hall I

- 15:45-16:30 ORAL PRESENTATIONS**

SPINE & PERIPHERAL NERVE (OP-13)

Chairs: Gualtiero Innocenzi, Fatos Ollidashi

Hall I

- 16:30-16:45 KEYNOTE LECTURE: Neuronavigation in Dorso-Lumbar Surgery**
Gualtiero Innocenzi
- 16:45-17:00 KEYNOTE LECTURE: How Much Fusion Do We Need?**
Fatos Ollidashi



17.00-17.15 KEYNOTE LECTURE:TBA

Andrea Barbanera

17.15-18.00 ORAL PRESENTATIONS

19.30-22.00 SOCIAL DINNER

MT-6

TRAUMA

Chairs: Corrado Iaccarino, David Adelson

Hall 2

11:00-11:15 Biomarker research in Traumatic Brain Injury: an update

Andras Buki

11:15-11:30 The antiseptory factor I6 and the ICP management

Mohammad Alolama

11:30-11:45 Pediatric Decompressive Craniectomy for Severe TBI

David Adelson

11:45-12:00 Decompressive Craniectomies without ICP Monitoring

Tariq Khan

12:00-12.15 Skull Base Trauma – Worthwhile dealing with that?

Christian Matula

12:15-12.30 Severe traumatic brain injury patients management - institutional experience and protocol

Djula Djilvesi

12:30-12.45 3D printing - a new educational tool in neurosurgery

Nikolay Gabrovsky

12.45-13.00 Mass Casualties, Natural and “Un-natural” Disasters, and Global Surgery: Benefits for Neurotrauma, Healthcare, and Poverty Worldwide

Russell Andrews

13.00-14.00 Lunch

SPINE & PERIPHERAL NERVE (OP-10)

Chairs: Michael Kliot, Jose Fernando Guedes Correa

Hall 2

14:00-14:15 KEYNOTE LECTURE: Perineuriomas

Robert Spinner

14:15-14:30 KEYNOTE LECTURE: We’ve Got Your Back: How the Nerve Surgeon Can Bail Out the Spine Surgeon

Eric Zager

14.30-14.45 KEYNOTE LECTURE: Minimalistic approaches to craniovertebral junction tumors

Mario Ammirati

14:45-15.30 ORAL PRESENTATIONS

15:30-15:45 Coffee break

GENERAL (OP-14)

Chairs: Miroslav Vukic, Davide Milani

Hall 2

- 16:30-16:45 KEYNOTE LECTURE: : Influence of normal hydrostatic pressure gradient on CSF physiology and hydrocephalus treatment**
Miroslav Vukic
- 16:45-17:00 KEYNOTE LECTURE: FET-PET diagnostic in recurrent gliomas**
Roberto Stefani
- 17:00-17:15 KEYNOTE LECTURE: Facial nerve integrity in CPA tumor surgery**
Imad Kanaan
- 17.15-17.25 Factors affecting the length of survival of patients with glioblastoma**
Vesna Nikolov
- 17.25-18.00 ORAL PRESENTATIONS**
- 19:30-22:00 SOCIAL DINNER**

MT-7

FUNCTIONAL & PAIN

Chairs: Marc Sindou, Piero Picozzi

Hall 3

- 11:00-11:15 Palliative Procedures in the Surgical Treatment of Intractable Epilepsy**
Massimo Scerrati
- 11:15-11:30 Arnold occipital neuralgia: can we rewrite the history?**
Stefano Ferraresi
- 11:30-11:45 Endoscope-assisted microvascular decompression for hemifacial spasm**
Henry Schroeder
- 11:45-12:00 Trigeminal neuralgia: from Imaging to Surgery**
Marc Sindou
- 12:00-12.15 Pudendal neuralgia - Experience with the transgluteal approach**
Gregor Antoniadis
- 12:15-12.30 Denervation for durable treatment of spasticity**
Mark Mahan
- 12:30-12.45 New Era in Gamma Knife Radiosurgery**
Selçuk Peker
- 12.45-13.00 Everything You Always Wanted to Know about Radiosurgery of AVM (But Were Afraid to Ask)**
Mikhail Chernov
- 13.00-14.00 Lunch**



FUNCTIONAL & PAIN (OP-11)

Chairs: Amr El Shawarbi, Angelo Lavano

Hall 3

- 14:00-14:15 KEYNOTE LECTURE: Vagal nerve stimulation for intractable Epilepsy**
Amr El Shawarbi
- 14:15-14:30 KEYNOTE LECTURE: Spinal cord stimulation for failed back surgery syndrome**
Angelo Lavano
- 14:30-14:45 KEYNOTE LECTURE: Thoracic outlet syndrome: a common, frequently overlooked cause of non discogenic brachialgia**
Debora Garozzo
- 14:45-14:55 Surgical treatment of trigeminal neuralgia**
Paolo Perrini
- 14:55-15:05 The role of radiosurgery in pain treatment**
Piero Picozzi
- 14:55-15:30 ORAL PRESENTATIONS**
- 15:30-15:45 Coffee break**

PEDIATRICS (OP-15)

Chairs: : Carlo Giussani, Venelin Gerganov

Hall 3

- 16:30-16:45 KEYNOTE LECTURE: Management of low grade gliomas in children**
Souad Bakhti
- 16:45-17:00 KEYNOTE LECTURE: Surgical treatment of Chiari I malformation**
Venelin Gerganov
- 17:00-18:00 ORAL PRESENTATIONS**
- 19:30-22:00 SOCIAL DINNER**

MT-8

HOW TO IMPROVE QUALITY OF PUBLICATIONS

Chairs: Tiit Mathiesen, Nelson Oyesiku

Hall 4

- 11:00-11:15 TBA**
Tiit Mathiesen
- 11:15-11:30 Randomized controlled trials in neurosurgery: an assessment of discontinuation and publication outcomes**
Andreas Demetriades
- 11:30-11:45 TBA**
Kresimir Rotim
- 11:45-12:00 The State of the Journal**
Nelson Oyesiku
- 12:00-12:15 TBA**
Andre Grotenhuis



12:15-12:30 **How to convince reviewer?**
Ihsan Solaroglu

12:30-12:45 **TBA**
David Adelson

12:45-13:00 **TBA**

13.00-14.00 **Lunch**

SPINE (OP-12)

Chairs: Pasquale De Bonis, Danilo Radulovic

Hall 4

14:00-14:15 **KEYNOTE LECTURE:**The evolution of intraoperative navigated 3D
fluoroscopic imaging for surgery of spine degenerative diseases
Salvatore Cardali

14:15-14:30 **KEYNOTE LECTURE:**Anterior cervical approach for the treatment of cervical
myelopathy
Danilo Radulovic

14:30-14.45 **KEYNOTE LECTURE:** Estimating different methods of outcome for patients having
juxta-facet cyst of the lumbar spine
Bruno Splavski

14:45-15.30 **ORAL PRESENTATIONS**

15:30-15:45 **Coffee break**

SPINE (OP-16)

Chairs: Michael Bruneau, Yavor Petkov Enchev

Hall 4

16:30-16:45 **KEYNOTE LECTURE:** Management of cervical tumors
Michael Bruneau

16:45-17:00 **KEYNOTE LECTURE:**Vertebroplasty and/or kyphoplasty?
Yavor Petkov Enchev

17:00-17:15 **KEYNOTE LECTURE:**The venous drainage of the spinal cord
and it's implications in spinal cord surgery
Victor Hugo Perez

17.15-18.00 **ORAL PRESENTATIONS**

19:30-22:00 **SOCIAL DINNER**

08.15-18.00 **Besta NeuroSim Center Simulation**

Hall TBA

Sunday, March 24th, 2019

MT-9

ENDOSCOPE & TUMOR

Chairs: Andre Grotenhuis, Daniel Kelly

Hall I

- 08:00-08:15** **Surgical strategies and outcomes for craniopharyngioma in the endoscopic era**
Daniel Kelly
- 08:15-08:30** **Combined endoscopic management of craniopharyngioma**
Chrandrashekhar Deopujari
- 08:30-08:45** **Complications of endoscopic endonasal skull base surgery and their avoidance**
Andre Grotenhuis
- 08:45-09:00** **Extended endoscopic endonasal approaches to clivus chordomas & chondrosarcomas**
Savaş Ceylan
- 09:00-09:15** **Endoscopic endonasal skull base reconstruction**
Domenico Solari
- 09:15-09:30** **Anticoagulation and Hemostasis in Neurosurgery**
Christopher Loftus
- 09:30-09:45** **Research Laboratory for Microsurgical and Endoscopical Anatomy as a translational approach**
Peter Winkler
- 09:45-10:00** **Endoscopic approaches to colloid cysts**
Alberto Delitala
- 10:00-10:15** **Transplanum transtubercle removal of suprasellar meningiomas and craniopharyngiomas**
Roman Bosnjak
- 10:15-10:30** **Endoscope Assisted Microneurosurgery for Intracranial Expansive and Vascular Lesions**
Renato Galzio
- 10:30-11:00** **Coffee break**



PLENARY SESSION 3

Chairs: Franco Servadei, Ioan Stefan Florian, Ihsan Solaroglu

Hall 1

- | | |
|-------------|--|
| 11:00-11:15 | Surgery of Brainstem Cavernomas
Ying Mao |
| 11:15-11:30 | Microsurgery of Complex Aneurysm
Basant Misra |
| 11:30-11:45 | The microsurgical approach to medulla oblongata
Ugur Ture |
| 11:45-12:00 | Surgical management of focal brain stem tumors in kids
Frederick Boop |
| 12:00-12:15 | Soccer and Neurosurgery
Nelson Oyesiku |
| 12:15-12:30 | A high-tech playground for the next generation neurosurgeons: real-time intraoperative imaging
Francesco Di Meco |
| 12:30-12:45 | Third Ventricle Craniopharyngiomas
Alexander Konovalov |
| 12:45-13:15 | Surgical approaches for midline tumors
Madjid Samii |
| 13:15-14:00 | OP BEST 5, AWARD & CLOSING CEREMONY |

MT-10

TUMOR

Chairs: Francesco Di Meco, Charlie Teo

Hall 2

- | | |
|-------------|--|
| 08:00-08:15 | Language mapping for parietal gliomas
Igor Maldonado |
| 08:15-08:30 | The Impact of DTI Fiber Tracking Based on Navigated Transcranial Magnetic Stimulation on Surgery of Eloquent Brain Lesion
Antonino Germano |
| 08:30-08:45 | Surgery around the corticospinal tract
Vincenzo Esposito |
| 08:45-09:00 | Extraoperative cortical stimulation and mapping for epilepsy and tumors in eloquent areas.
Konstantinos Fountas |
| 09:00-09:15 | Fluorescence assisted surgery for brain tumors
Giovanni Broggi |



- 09:15-09:30** **Supracerebellar transtentorial approach to the mediobasal temporal region in prone position**
Feridun Acar
- 09:30-09:45** **The treatment of malignant brain tumors**
Branko Djurovic
- 09:45-10:00** **Precision Neurosurgery for the Gliomas: An Old Concept in New Clothes**
Colin Watts
- 10:00-10:15** **Oligodendrogliomas: multiple radical surgeries confer better outcomes and survival rates than surgery plus chemotherapy and radiotherapy**
Charlie Teo
- 10:15-10:30** **The use of different technologies in the OR to optimize the extent of resection of brain tumors**
Alessandro Olivi
- 10:30-11:00** **Coffee break**

MT-11

SPINE & PERIPHERAL NERVE
Chairs: Stefano Ferraresi, Marcos Masini

Hall 3

- 08:00-08:15** **Peripheral Nerve Tumors: To grow or not to grow, that is the question**
Michael Kliot
- 08:15-08:30** **Surgical challenges in the management of giant nerve sheath spinal tumors. Multidisciplinary approach**
Marcel Ivanov
- 08:30-08:45** **Surgical approach to peripheral neuropathy**
Jacques Line
- 08:45-09:00** **Non neurogenic tumors affecting peripheral nerves: who should operate them?**
José Fernando Guedes Corrêa
- 09:00-09:15** **Management of complication in peripheral nerve surgery**
Lukas Rasulic
- 09:15-09:30** **Microsurgical Treatment of Lumbar Spondylolysis and Spondylolisthesis**
Marcos Masini
- 09:30-09:45** **Role of minimal invasive techniques and new classification system in the surgical treatment of pathologies situated in the spinal canal**
Peter Banczerowski
- 09:45-10:00** **Comprehensive Management of Spinal Cord Lesions**
Manfred Westphal



- 10:00-10:15 Management of Anterior Cervical Fusion Complications**
Scott Robertson
- 10:15-10:30 Management of Durotomy and CSF Leaks in Spinal Injury**
Regunath Kandasamy
- 10:30-11:00 Coffee break**

REGISTRATION FORM

Please complete online Registration on our website www.wfnbelgrade2019.talkb2b.net

PRE-MEETING COURSES, MARCH 21ST, 2019

Each Course has limited number of participants based on principle first come first served. Endoscopy Course has limited number of up to 20 participants and all other Courses have limited number of up to 40 participants.

Course	Registration fee
WFNS Education	FREE
WFNS Endoscopy	€500,00
WFNS Surgical Anatomy	€50,00
Global Neuro	€50,00
AO Spine	€50,00
Spine Intraoperative Navigation	€50,00

MEETING COURSE, MARCH 22ND-23RD, 2019

This Course has limited number of 15 participants per day based on principle first come first served.

Course	Registration fee
Day I	Included in Congress Registration Fee
Day II	Included in Congress Registration Fee

WFNS 2019 INTERNATIONAL MEETING, March 22ND-24TH, 2019

Registration is mandatory for all categories

Category:	Early registration by October 01 st , 2018	Late registration from October 02 nd 2018 until February 01 st , 2019	On-site registration
Faculty	FREE	FREE	FREE
Board exam neurosurgeons	300 €	350 €	400 €
Reduced Category*	100 €	150 €	150 €
Medical students	FREE	FREE	FREE



*Residents / Young neurosurgeons below age of 40 / Participants from Low income Countries [link 1](#) / Lower middle income [link 2](#) (refer to list qualified by World Bank). Please upload the photocopy of passport with registration form.

REGISTRATION FEES INCLUDES: Congress materials, admission to all scientific sessions, buffet lunches, refreshments and coffee breaks indicated in the program and VAT.

**According to the decision of the Scientific Committee,
30 best oral presentations will be awarded
with free registration and accommodation.**

SOCIAL PROGRAM

Social Dinner, March 23 rd , 2019	50 €
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REGISTRATION CANCELLATION TERMS

- Requests for registration cancellation must be submitted in writing to the Secretariat at wfn2019belgrade@snss.org.rs
- For cancellations received until October 01st, 2018 refund of registration fees will be 100%.
- For cancellations received until February 01st, 2019 refund of registration fees will be 50%.
- After that the registration fee will not be refunded.
- Please note that registration refunds will be processed within 30 days after the end of Meeting, bank charges will be deducted from the refund.
- If no refund is required but a change in participant registration is needed, then the Secretariat must be informed in writing via email to wfn2019belgrade@snss.org.rs



CALL FOR ABSTRACTS

Abstract guidance & Online submission

The Scientific Committee of the WFNS 2019 International Meeting welcomes the submission of scientific abstracts. Authors are invited to submit abstracts in the following sub-categories:

- Neuro-oncology
- Neurovascular
- Neurotrauma and Intensive Care
- Spine and Peripheral Nerve
- Pediatrics
- Functional and Stereotactic Neurosurgery
- Varia

Abstract(s) should be submitted on line on the web site

The abstract should be submitted by December 15th, 2018.

All abstracts will be reviewed. Accepted abstracts will be published in the Abstract Book.

The best abstracts will be included in the main scientific program.

Carefully read the guidelines before submitting your abstract. Acknowledgement of receipt of your submission will be returned to your e-mail address. Please note, that acknowledgement of receipt of your abstract submission does not mean that your abstract is accepted by the Scientific Committee.

SUBMISSION GUIDELINES

- Abstracts must be submitted in English.
- Titles should contain no more than 200 characters.
- Abstract text should contain no more than 300 words.
- Use standard abbreviations. Place a special or unusual abbreviation in parenthesis after the full word when it appears for the first time.
- Abstracts must be written in comprehensible English and must conform to the guidelines or they will not be accepted. It is the author's responsibility to submit a correct abstract.
- Any tables, graphs or diagrams should be upload together with the abstract.
- The organizers of this event take no responsibility for any published abstracts submitted. Any issues or errors arising from the abstracts are solely the responsibility of the authors.
- Changes to abstract can only be accepted until the deadline
- By submitting his / her / their work, the Author(s) consent to the publication of the abstract and transfer and assign to the Congress organizers the rights to edit, publish, reproduce, distribute copies and to prepare derivative works such as press releases. Author(s) represent and warrants that he / she / they is / are sole author(s) of the work, that all authors have participated in and agree with the content and conclusions of the work, and that the work is original and does not infringe upon any copyright, proprietary or personal right of any third party. If the work is not original, author(s) should reference original source and ensure all relevant permission and / or authorization to re-use have been obtained

NOTIFICATION OF ACCEPTANCE

- Upon submission, you will receive an acknowledgement email notifying that your abstract has been received with your Abstract ID.
- Once the Abstract Submission closes, all abstracts will be reviewed by the Scientific Committee. The Scientific Committee reserves the right to select the abstracts relevant to the sessions and decide on the final form of presentation.
- Notification of acceptance/rejection will be e-mailed to you no later than January 15th, 2019. (contact Scientific Committee if you have not received your notification e-mail by wfn2019belgradeabstract@snss.org.rs).
- If the abstract is accepted, applicant MUST register and pay registration fee.
- All successfully accepted abstract submitters must present their abstract in the form of Oral or Poster Presentation during the Congress.
- The corresponding author will receive any correspondence concerning the abstract.

For any inquiries, please contact the Scientific Committee at wfn2019belgradeabstract@snss.org.rs
Please visit the website <http://www.wfnbelgrade2019.talkb2b.net/> for more details.

WFNS 2019 INTERNATIONAL MEETING HOST CITY - BELGRADE

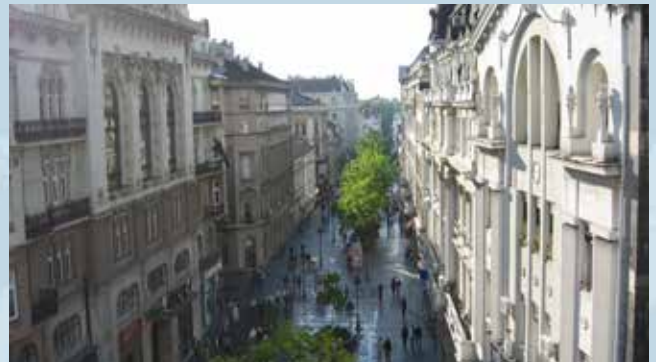
Welcome to Belgrade, capital of Serbia!

City of many nations, BELGRADE is a city with a tumultuous, but also frequently tragic past, primarily due to its unique position at the confluence of the Sava and Danube rivers, on the border between the East and the West. Due to its position it was rightfully named “Gates of the Balkans” and the “Doors of Middle Europe”. Belgrade is one of the oldest cities in Europe with a 7000-year history. The space around the large rivers of the Sava and Danube was already populated in the Stone Age. The Celts named the populated fortress SINGIDUNUM, where the first part of the word „Singi“ means round, and „dunum“ fortification or town. In the Byzantine Age, Singidunum became an important city of the vast empire. The Slavic name BEOGRAD (Beli grad – White City – probably because its ramparts were made of white limestone) may first be found in records from the 9th century.

Belgrade flourished in 19th and 20th centuries during the reign of the Obrenovic dynasty and Karadjodjevic dynasty. It was then and it still is an important strategic point, the crossroads from the East to the West and one of the most significant cities in the Balkans.

Visitors who come to Belgrade for the first time, never leave indifferent, and always come back to it with joy.

More importantly, Belgraders like everyone, so get to know Belgrade by getting to know Belgraders!



WFNS 2019 INTERNATIONAL MEETING VENUE & ACCOMMODATION



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FALKENSTEINER 4*

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HOSTEL ARKABARKA

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HOSTEL GREEN HOUSE

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TULIP INN PUTNIK BELGRADE 3*

<http://www.tulipinnputnikbelgrade.com/>

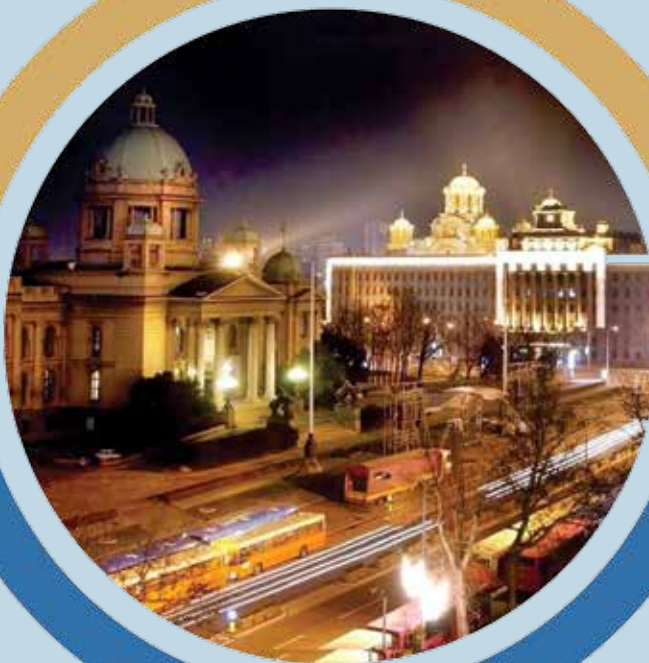


HOSTEL SAN ART

<http://www.sanarthostel.rs/>

TOS recommendation for accommodation in Belgrade:

<http://www.srbija.travel/accommodation/accommodation-search.600.html>



SNSS & SeENS
Technical support and organization



ULTRA
marine:



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