SPINE SURGERY IN XXI CENTURY

current concept, controversies, perspectives

FINAL PROGRAM

October 4-7
2018
Niš, Serbia

Venue:
Tami Residence Hotel

4th Annual meeting of Serbian Neurosurgical Society

95th Anniversary of neurosurgery in Serbia
80th Anniversary of Clinic for Neurosurgery, Belgrade, Serbia
55th Anniversary of Clinic for Neurosurgery, Niš, Serbia

Who can attend?
Neurosurgeons, Orthopedists, Spine Specialists, Spine Related Physicians (Rehab Specialists, Chiropractors, Pain Specialists, Rheumatologists)

www.snssspine2018.talkb2b.net
Dear colleagues and friends,

It is my privilege, honor and pleasure to invite you to take part in the JOINT MEETING OF THE ASSOCIATION OF NEUROSURGEONS OF RUSSIA, RUSSIAN ASSOCIATION OF SPINAL SURGEONS AND SERBIAN NEUROSURGICAL SOCIETY IN CONJUNCTION WITH CROATIAN SOCIETY FOR SPINE SURGERY, on the occasion of the Fourth Annual Meeting of the Serbian Neurosurgical Society and Joint Meeting with Southeast European Neurosurgical Society, which will be held in NIS, SERBIA, OCTOBER 4-7, 2018.

Russia and Serbia share a long tradition of cooperation and friendship, and this meeting is the result of long-lasting collaboration between Serbian and Russian Neurosurgical Societies, which has only intensified and become more successful over the past years.

The global theme of the meeting is SPINE SURGERY IN XXI CENTURY – Current Concept, Controversies, Perspectives. The scientific program will cover all treatment aspects of surgical pathology of the spine, from basic to innovative.

Serbian Neurosurgical Society is delighted that The Fourth Annual Meeting of Serbian Neurosurgical Society will feature renowned international experts, as well as prominent Russian and Serbian neurosurgeons, who will gather together in Nis in order to improve the quality of neurosurgical service and education today, for the sake of a better tomorrow.

Thereby we are also marking three important anniversaries – 95 years since the founding of neurosurgery in Serbia, 80 years of the Clinic of Neurosurgery at the Clinical Center of Serbia and 55 years of the Clinic for Neurosurgery at the Clinical Center Nis.

Continuing the good practice established at The First Annual Meeting of the Serbian Neurosurgical Society held in Belgrade in 2015, we are pleased to announce the annual Serbian Neurosurgical Society Best Young Neurosurgeon Paper Award for 2018, with international participation. Eligible for the award are scientific papers by young neurosurgeons (up to 40 years of age) from Serbia and abroad.

The papers submitted for the award will be presented by their authors and assessed by a jury of national and international experts. We are also pleased to announce Young Neurosurgeons’ Forum as a special segment of the academic program of the Congress.

Leaning upon the strong foundations of tradition and experience and following contemporary professional accomplishments, trends and innovations, we strive for neurosurgery and neuroscience without frontiers and aim at building bridges of knowledge and understanding across disciplines, institutions, individuals and generations.

The host city of Nis, with its unique spirit, is a venue that is particularly well-suited to the concept of borderless cooperation. Nowadays the third largest city of Serbia, Nis has from ancient times been considered a gateway between the East and the West. Notably, it is the birthplace of Constantine the Great, who was the first Roman emperor to legalize Christianity along with other religions in the Roman Empire, and the founder of Constantinople as the capital of the Eastern Roman/Byzantine Empire. He was also the first ruler to establish public clinics throughout the Roman Empire where the poor, the injured and the helpless received medical care.

In the spirit of Constantine the Great’s wise words – “With free minds” – we invite you to join us in Nis in October 2018, convinced that our gathering will provide many memorable scientific and social moments.

We look forward to welcoming you in Nis!

Prof. Dr Lukas Rasulic
President of the Serbian Neurosurgical Society
Honorary President of the Congress
WELCOME MESSAGE

Dear colleagues, friends!

It is a pleasure for us to invite you to the 4th Annual meeting of the Serbian Neurosurgical Society and joint meeting “SPINE SURGERY IN 21 CENTURY – CURRENT CONCEPT, CONTROVERSIES, PERSPECTIVES” between the Association of Neurosurgeons of Russia, Russian Association of Spinal Surgeons and Serbian Neurological Society in conjunction with Croatian Society for Spine Surgery to be held in NIS, SERBIA, ON 4-7 OF OCTOBER 2017.

Rapid development of our specialty, emergence of new technologies, modern neuroimaging techniques, improved methods of diagnostics have determined the main topics for discussions.

The interest towards this event is aroused by participation of outstanding neurosurgical faculty and experienced specialists in spinal neurosurgery from Russia and Serbia.

This is also a chance to outline the tasks for future perspective studies in spinal neurosurgery.

We are absolutely sure that beauty of the countryside and hospitality of the Serbian people will make your visit pleasant and unforgettable.

Welcome to Nis!
Best wishes,

Alexander Potapov, MD, PhD
Professor of Neurosurgery
N.N. Burdenko National Scientific & Practical Center for Neurosurgery, Director

Nikolay Konovalov, MD, PhD
Professor of Neurosurgery
N.N. Burdenko National Scientific & Practical Center for Neurosurgery, Head of Department of Spinal Neurosurgery
Dear colleagues, dear friends!

Welcome to the joint meeting SPINE SURGERY IN XXI CENTURY - Current concept, controversies, perspectives organized by Association of Neurosurgeons of Russia, Russian Association of Spinal Surgeons and Serbian Neurosurgical Society in conjunction with Croatian Society for Spine Surgery, which will be held in Nis, Serbia, from October 4-7, 2018.

This important meeting will be held on the occasion of the 4th Annual meeting of Serbian Neurosurgical Society as a Joint meeting with Southeast Europe Neurosurgical Society.

Thanks to the collaborative work of our societies a comprehensive scientific program will be put together covering all areas of interest in spinal neurosurgery. No doubt, the spectrum of spine-related problems to be discussed and participation of outstanding neurosurgeons from different countries will make this event especially interesting.

We hope that picturesque surroundings, mild climate and exciting social programme will make your visit pleasant.

Welcome to Nis!

Yours sincerely,

Alexander Konovalov, MD, PhD
President of the Association of neurosurgeons of Russia
Dear Colleagues,
Ladies and Gentlemen,

As the Honorary President of SouthEast Europe Neurosurgical Society and Croatian Society for Spine Surgery it is my great pleasure and honor to announce and invite You to the 4th Annual meeting of the Serbian Neurosurgical Society and joint meeting “SPINE SURGERY IN 21th CENTURY-CURRENT CONCEPT, CONTRO-VERSIES, PERSPECTIVES” between the Association of Neurosurgeons of Russia, Russian Association of Spinal Surgeons and Serbian Neurological Society in conjunction with Croatian Society for Spine Surgery and the Southeast Europe Neurosurgical Society, to be held in Nis, Serbia, on October 4-7 2018.

The Southeast Europe Neurosurgical Society (SeENS, www.seens.eu) has been founded in 2012. SeENS has succeeded to rebuilt liaisons 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.

Rapid development of spine surgery, improved methods of diagnostics, new technologies and modern neuroimaging techniques have urged the need to organize such an event.

Concerning the attractiveness of spine surgery the list of the invited speakers at this Joint meeting is impressive and includes the EuroAsian and World’s leading experts in the field of neurosurgery. Over 100 active participants are expected to attend the Joint meeting.

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 Joint meeting and to discover and enjoy the beautiful city of Nis, where Emperor Constantin, the „Emperor of the Christian people” was born.

I cordially invite You to Nis, Serbia, to experience and share noteworthy scientific and social moments.

Sincerely,

Prof. Dr Kresimir Rotim
SeENS Honorary President
President of the Croatian Society for Spine Surgery
Honorary President of the Congress
Dear colleagues,

It is with great pleasure that we announce the Joint Meeting of Spinal Surgery organized by the Association of Neurosurgeons of Russia, Russian Association of Spinal Surgeons and Serbian Neurosurgical Society in conjunction with Croatian Society for Spine Surgery, under the title: SPINE SURGERY IN XXI CENTURY-Current concept, controversies, perspectives.

This meeting will take place in Nis, Serbia, between October 4-7th, 2018. on the occasion of the 4th Annual meeting of Serbian Neurosurgical Society as a Joint meeting with Southeast Europe Neurosurgical Society.

Extremely rapid developments in the field of spine surgery have led to the need for permanent connections, and mutual exchange of knowledge and experience, between a large number of medical experts involved in the diagnosis, surgical treatment, and significant post-operative physical therapy procedures of spinal diseases. The active approach to dealing with degenerative diseases, injuries, tumor processes and deformities of the spine is imperative for the forthcoming period because it allows a lot of patients to quickly return to normal life and thus be less of a burden to society.

Cutting-edge technology solutions, materials, and equipment have been very aggressive in trying to impose their vision of spine surgery. Therefore, critically important application of appropriate technical possibilities, harmonization of different viewpoints on the selection of surgical techniques and the use of adequate materials and equipment form a base for mutual exchange of experience, towards the making of the best decisions for the benefit of patients.

The city of Nis, where this important international gathering will take place, is one of the oldest cities in the Balkans – the birthplace of the Roman Emperor Constantine the Great who proclaimed Christianity the official religion of the Roman Empire as early as 1700 years ago. The city with a big heart, Nis stands at the crossroads of historical developments and future prospects.

We are truly honored to invite you to be a part of this valued event.

Prof. Dr Nebojsa Stojanovic
Professor of Neurosurgery
President of the Organizing Committee
HONORARY PRESIDENTS OF THE CONGRESS

Prof. Dr Lukas Rasulic
Belgrade, Serbia

Prof. Dr Alexander Potapov
Moscow, Russia

Prof. Dr Nikolay Konovalov
Moscow, Russia

Prof. Dr Kresimir Rotim
Zagreb, Croatia

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Doc. Dr Milan Spaic, Serbia

Mr. Vule Vukovic, Serbia
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Prof. Dr Alexander Krutko, Russia
Prof. Dr Andrey Grin, Russia
Prof. Dr Anton Nazarenko, Russia
Prof. Dr Alexander Potapov, Russia
Prof. Dr Dmitry Ptashnikov, Russia
Prof. Dr Sergey Vissarionov, Russia
Prof. Dr Ivan Stefanovic, Serbia
Prof. Dr Milos Jokovic, Serbia
Prof. Dr Danilo Radulovic, Serbia
Prof. Dr Branko Djurovic, Serbia
Prof. Dr Miodrag Rakic, Serbia
Prof. Dr Kenan Arnaoutovic, USA
Prof. Dr Petar Vulekovic, Serbia
Prof. Dr Vaso Antunovic, Serbia
Prof. Dr Miroslav Samardzic, Serbia
Dr Ljubodrag Minic, Serbia
Prof. Dr Dmitriy Asyutin, Russia
Prof. Dr Zdeslav Milinkovic, Serbia
Prof. Dr Yavor Enchev, Bulgaria
Dr Harjinder Bhatoe, India

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Dr Domagoj Gajski, Croatia
Dr Ante Rotim, Croatia
Dr Andrija Savic, Serbia
Dr Milan Lepic, Serbia
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Arnautovic Kenan, USA
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Banczerowski Peter, Hungary
Benedicic Mitja, Slovenia
Bhatoe Harjinder, India
Bosnjak Roman, Slovenia
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Delitala Alberto, Italy
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Dimitrijevic Milan, USA
Duff John Michael, Switzerland
Dzukuev Dmitry, Russia
Djilvesi Djula, Serbia
Djuraskovic Slavko, Montenegro
Djurovic Branko, Serbia
Enchev Yavor, Bulgaria
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Kolesov Sergey, Russia
Konovalov Alexander, Russia
Konovalov Nikolay, Russia
Korolishin Vasily, Russia
Lafuente Jesus, Spain
Lakicevic Novak, Montenegro
Lalosevic Vladimir, Croatia
Majer Tiberiu, Romania
Manukovsky Vadim, Russia
Markovic Marko, Serbia
Mehring Torsten, Norway
Meyer Bernhard, Germany
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Milinkovic Zdeslav, Serbia
Minic Ljubodrag, Serbia
Mladic Batinica Inga, Croatia
Mlyavykh Sergey, Russia
Mushkin Alexander, Russia
Nazarenko Anton, Russia
Nikolov Vesna, Serbia
Novakovic Nenad, Serbia
Olldashi Fatos, Albania
Omerhodzic Ibrahim, Bosnia and Herzegovina
Onoprienko Roman, Russia
Osorio-Fonseca Enrique, Colombia
Papic Vladimir, Serbia
Paterno Vincenzo, Germany
Pavelcic Goran, Serbia
Peev Nikolay, Ireland
Peker Selçuk, Turkey
Peulic Miodrag, Serbia
Potapov Alexander, Russia
Ptashnikov Dmitry, Russia
Radovanovic Zoran, Serbia
Radulovic Danilo, Serbia
Ramalho da Cunha Marcio, Brazil
Rasulic Lukas, Serbia
Rerikh Victor, Russia
Rotim Kresimir, Croatia
Saftic Robert, Croatia
Sajko Tomislav, Croatia
Sala Francesco, Italy
Samii Madjid, Germany
Sanyuk Sujay, India
Schaller Karl, Switzerland
Selviaridis Panagiotis, Greece
Senker Wolfgang, Austria
Shkarubal Alexey, Russia
Shulev Yuriy, Russia
Skomorac Rasim, Bosnia and Herzegovina
Smrcka Martin, Czech Republic
Solaroglu Ihsan, Turkey
Sorokovikov Vladimir, Russia
Spalvski Bruno, Croatia
Spyrou Michalakis, Cyprus
Stefanovic Ivan, Serbia
Stojanovic Nebojsa, Serbia
Talahma Imad, Palestine
Tissen Teodor, Russia
Tomasello Francesco, Italy
Ventura Norberto, Spain
Vissarionov Sergey, Russia
Vorsic Matjaz, Slovenia
Vukic Miroslav, Croatia
Vulekovic Petar, Serbia
Yaman Onur, Turkey
Zakirov Bahramkhon, Russia
Zileli Mehmet, Turkey

SPECIAL GUEST LECTURE:
Prof. Dr Nenad Filipovic
Rector of University of Kragujevac, Serbia
ACCREDITATION

EUROPEAN ACCREDITATION COUNCIL FOR CONTINUING MEDICAL EDUCATION (EACCME®)

"THE SPINE SURGERY IN XXI CENTURY- CURRENT CONCEPT, CONTROVERSIES, PERSPECTIVES, Nis, Serbia, 04/10/2018-07/10/2018 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 28 European CME credits (ECMEC®s).

Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity."

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"Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada."

THE HEALTH COUNCIL OF THE REPUBLIC OF SERBIA

THE SPINE SURGERY IN XXI CENTURY- CURRENT CONCEPT, CONTROVERSIES, PERSPECTIVES is accredited by the Health Council of the Republic of Serbia as an International Congress, decision No.: 153-02-2275/2018-01 dated on August 21st, 2018, document number A-1-2000/18, with the following number of credits:

- Lecturers: 15 credits
- Oral presentations: 13 credits
- Poster presentations: 11 credits
- Passive participation: 10 credits
SPINE SURGERY IN XXI CENTURY

current concept, controversies, perspectives

PRE-MEETING WORKSHOP AND COURSE

October 4-7 2018
Niš, Serbia
Venue: Tami Residence Hotel

www.snssspine2018.talkb2b.net
**PRE-MEETING WORKSHOP**

**Thursday, October 4th, 2018**

<table>
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<th>Time</th>
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<tr>
<td>09.00 - 09.15</td>
<td>Registration</td>
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</table>
| 09.15 - 14.15 | WORKSHOP “PERCUTANEOUS LASER DISC DECOMPRESSION – PLDD” BY DIODE LASER, A MINIMAL INVASIVE OUTPATIENT TREATMENT  
**Venue: Clinical center Nis, Serbia**  
This Workshop has limited number of up to 20 participants based on the principle first come first served. Registration fee for this workshop is included in the Congress registration fee. |
| 09.15 - 09.30 | Biolitec company and laser introduction  
Dr. Ninoslav Ribic, Serbia |
| 09.30 - 10.00 | Percutaneous Laser Disc Decompression-PLDD  
Dr. Georg Kienbacher, Austria |
| 10.15 – 10.30 | Coffee break |
| 10.30 – 11.30 | 1st Live surgery  
Prof. Dr. Ivan Stefanovic, Serbia |
| 11.30 - 11.45 | PLDD experience – My first 30 patients  
Prof. Dr. Ivan Stefanovic, Serbia |
| 11.45 – 12.30 | Brunch |
| 12.30 – 13.30 | 2nd Live surgery  
Prof. Dr. Ivan Stefanovic, Serbia |
| 13.30 – 13.45 | Percutaneous Laser Discectomy by Lumbar Chronical and Hard Disc Herniation  
Prof. Dr. Ivan Stefanovic, Serbia |
| 13.45 – 14.15 | Discussion  
Dr. Georg Kienbacher, Austria |
| 14.15 | Certificates |
| 20.00-22.00 | Welcome Faculty Reception, Restaurant Sunset, Hotel “Tami Residence” |
PRE-MEETING COURSE

Thursday, October 4th, 2018

11.00 - 11.15  Registration

11.15-18.15  **PRE-MEETING COURSE - SPINAL INSTRUMENTATION**

*Venue: Clinical Center Nis, Serbia*

*This Workshop has limited number of up to 20 participants based on the principle first come first served. Registration fee for this workshop is included in the Congress Registration fee.*

11.15- 11.45  **MCT SEE Company presentation**

11.45 – 12.00  **Case report I**

Doc. Dr Matjaz Vorsic

12.00- 12.15  **Coffee break**

12.15- 14.30  **Live surgery**

Doc. Dr Matjaz Vorsic

Prof. Dr Nebojsa Stojanovic

14.30-14.45  **Case discussion**

14.45-15.15  **Brunch**

15.15-15.30  **Case report II**

Doc. Dr Matjaz Vorsic

15.30- 17.45  **Live surgery**

Doc. Dr Matjaz Vorsic

Prof. Dr Nebojsa Stojanovic

17.45-18.00  **Case discussion**

18.00-18.15  **Certificates**

20.00-22.00  **Welcome Faculty Reception, Restaurant Sunset, Hotel “Tami Residence”**
SPINE SURGERY IN XXI CENTURY

current concept, controversies, perspectives

SCIENTIFIC PROGRAM

October 4-7 2018
Niš, Serbia
Venue: Tami Residence Hotel

www.snssspine2018.talkb2b.net
Friday, October 5th, 2018

07.30 Registration

OPENING CEREMONY

08.00-09.00 Welcome Addresses

- Prof. Dr Lukas Rasulic, Co-President of the Congress, SNSS President, SeENS President
- President of the Republic of Serbia
- Ministry of Health of the Republic of Serbia
- H.E. Mr. Alexander Chepurin, Ambassador Extraordinary and Plenipotentiary, Embassy of the Russian Federation
- Prof. Dr Nikolay Konovalov, Co-President of the Congress
- Prof. dr Alexander Potapov, Honorary President of the Congress, Director of N. N. Burdenko Neurosurgical Institute
- Prof. Dr Alexander Konovalov, Honorary President of the Congress, President of the Association of Neurosurgeons of Russia
- Prof. Dr Mehmet Zileli, Chair of the WFNS Spine Committee
- Prof. Dr Artem Gushcha, President of the Association of Spinal Surgeons of Russia
- Prof. Dr Kresimir Rotim, Honorary President of the Congress, SeENS Honorary President, President of the Croatian Society for Spine Surgery
- Prof. Dr Zdeslav Milinkovic, Spinal Center Milinkovic, Founding member and First President of Spine Experts Group
- Prof. Dr Kenan Arnautovic, AANS, Chair, International Collaboration Committee
- Acad. Vladimir Kostic, President, Serbian Academy of Sciences and Arts
- Prof. Dr Dragan Antic, Rector of the University of Nis
- Prof. Dr Dobrila Stankovic Djordjevic, Dean of the Faculty of Medicine, University of Nis
- Prof. Dr Zoran Radovanovic, Director of the Clinical Center of Nis
- Prof. Dr Nebojsa Stojanovic, President of the International Organizing Committee
- Mr. Darko Bulatovic, Mayor of Nis

SNSS Tribute: MILIVOJE KOSTIC LECTURE 1

09.00-09.30 Where Will We Be Tomorrow: The Future of Minimally Invasive Surgery

Kevin Foley, USA

INTRO Lukas Rasulic

SNSS Tribute: MADJID SAMII LECTURE

09.30-10.00 Problems and Solutions in Geriatric Spine Surgery

Mehmet Zileli, Turkey

INTRO Lukas Rasulic
# PLENARY SESSION 1

**Moderators:** Lukas Rasulic, Nikolay Konovalov, Kresimir Rotim

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<tr>
<td>10.00-10.20</td>
<td>Tumor Surgery of Craniovertebral Junction</td>
<td>Madjid Samii, Germany</td>
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<tr>
<td>10.20-10.40</td>
<td>Lumbar dynamic pedicle-based stabilization versus fusion in degenerative disease: preliminary results of the DYNORFUSE prospective randomized trial</td>
<td>Bernhard Meyer et al., Germany</td>
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<td>10.40-11.00</td>
<td>Surgical treatment of intramedullary tumors: experience of more than 700 cases</td>
<td>Nikolay Konovalov, Russia</td>
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<td>11.00-11.20</td>
<td>Spine Surgery Today: Appropriate or Over Indication?</td>
<td>Francesco Tomasello, Italy</td>
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<tr>
<td>11.20-11.40</td>
<td>Spinal Surgery in Russia - Trends, Highlights, Outstanding Issues</td>
<td>Artem Gushcha, Russia</td>
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<td>11.40-12.00</td>
<td>Coffee break</td>
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# MAIN SCIENTIFIC SESSION 1: DEGENERATIVE SPINE

**Moderators:** Mehmet Zileli, Artem Gushcha, Petar Vulekovic

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<td>12.00-12.15</td>
<td>KEY NOTE LECTURE</td>
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<td></td>
<td>Cervical myelopathy – new insights into pathophysiology and treatment</td>
<td>Peter Vajkoczy, Germany</td>
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<td>12.15-12.30</td>
<td>KEY NOTE LECTURE</td>
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<td>Retrospective single-surgeon study of 1,123 consecutive cases of anterior cervical discectomy and fusion: A comparison of clinical, outcome parameters and costs between outpatient and inpatient surgery groups with a literature review</td>
<td>Kenan Arnautovic, USA</td>
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<td>12.30-12.45</td>
<td>KEY NOTE LECTURE</td>
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<td>Surgical Management of Intradural tumors at the craniovertebral junction region</td>
<td>Ioan Stefan Florian et al., Romania</td>
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<tr>
<td>12.45-13.00</td>
<td>Electrophysiological Monitoring in Spinal Disease</td>
<td>Francesco Sala, Italy</td>
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<tr>
<td>13.00-13.15</td>
<td>Surgical Outcome Prognosis for Degenerative Lumbar Spine Disease</td>
<td>Anton Nazarenko, Russia</td>
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<tr>
<td>13.15-13.30</td>
<td>Three and Four Level ACDF: How I Do It</td>
<td>Ibrahim Omerhodzic et al., Bosnia and Herzegovina</td>
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<td>13.30-14.15</td>
<td>Lunch</td>
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<td>13.30-14.15</td>
<td>Commercial Symposium HAAG STREIGHT SURGICAL – Exhibition Area</td>
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<td>13.30-14.15</td>
<td>Serbian Neurosurgical Society EC Meeting - Board room</td>
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MAIN SCIENTIFIC SESSION 2: DEGENERATIVE SPINE
Moderators: Bernhard Meyer, Alberto Delitala, Ioan Stefan Florian

14.15-14.30 KEY NOTE LECTURE
The anterior unkoforaminotomy in treatment of patients with radicular pain caused by lateral stenosis at degenerative cervical spine pathology
Vladimir Klimov et al., Russia

14.30-14.45 KEY NOTE LECTURE
Experiences with “percutaneous laser disc decompression” by a diode laser - a minimal invasive outpatient treatment for contained disc herniations
Gregor Kienbacher, Austria

14.45-15.00 Intraoperative neurophysiological monitoring in degenerative cervical spine surgery
Petar Vulekovic, Serbia

15.00-15.15 Degenerative lumbar spine: protocols and when the unusual approaches are better
Dmitry Dzukaev, Russia

15.15-15.30 Failed back surgery
Tomislav Cigic, Serbia

15.30-15.45 New concepts for using the arthroplasty in the degenerative changes of the cervical spine
Matjaz Vorsic et al., Slovenia

15.45-16.00 Reconstructive surgery of the cervical spine - Indications
Nebojsa Stojanovic, Serbia

16.00-16.15 My Experience with Cervical Spine Surgery and Stabilization
Venko Filipce, Macedonia

16.15-16.30 Lumbar spine stenosis: prevalence and morphology of ossification of the ligamentum flavum
Vladimir Sorokovikov et al., Russia

16.30-16.45 Discussion

16.45-17.00 Coffee break
### ORAL PRESENTATIONS 1

**Moderators:** Dmitry Dzukaev, Miroslav Vukic, Goran Pavlicevic

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<tr>
<td>17.00-17.10</td>
<td>OP1. Dr. Vladimir Petrovich Pasek - the first registrated neurosurgeon? Milan Spaic, Serbia</td>
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<td>17.10-17.20</td>
<td>OP2. Degenerative lumbar spine Vesna Nikolov, Serbia</td>
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<td>17.20-17.30</td>
<td>OP3. Dynamic Stabilization with Polyetheretherketone (PEEK) Rods: Mid-term Results (5 Years) in Lumbar Spine Degenerative Diseases in a Comprehensive Patients Series-Radiological and Clinical Assessment Ahmet Ögrenci, Turkey</td>
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<td>17.30-17.40</td>
<td>OP4. Cervical Radiculopathy vs. Carpal Tunel Syndrome – the shared theritory Miljan Bulatovic et al., Serbia</td>
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<td>17.40-17.50</td>
<td>OP5. Iatrogenic injuries of the paravertebral vessels at operative treatment of the lumbar vertebra disc hernias - presentation of the two cases Andrej Prija, Slovenia</td>
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<td>17.50-18.00</td>
<td>OP6. Anesthesia in spine surgery with neuromonitoring: current concept and our experience Sanja Maricic Prijic et al., Serbia</td>
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<td>18.00-18.10</td>
<td>OP7. Anterior sacral meningocele in children – diagnostic and therapeutic strategies Mirjana Raicevic et al., Serbia</td>
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<td>18.10-18.20</td>
<td>OP8. Does transvers diametere of the cervical spinal canal play a role on CSM development? Murat Sayin, Turkey</td>
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<td>18.30-18.40</td>
<td>OP10. Our experience with Caspar microsurgical discectomy Tomaz Velnar et al., Slovenia</td>
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<td>08.00-19.00</td>
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### MAIN SCIENTIFIC SESSION 3: SPINE TRAUMA AND INFECTIONS

**Moderators:** Vadim Manukovsky, Ljubodrag Minic, Fatos Oldashi

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<tr>
<td>12.00-12.15</td>
<td>Key Note Lecture</td>
<td>Current concept of chronic spondylitis</td>
<td>Aleksandr Mushkin et al., Russia</td>
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<tr>
<td>12.15-12.30</td>
<td>Key Note Lecture</td>
<td>Modification of short-segment fixation with pedicle screws in fracture site without fusion for thoracolumbar fractures</td>
<td>Vladimir Lalosevic et al., Serbia</td>
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<tr>
<td>12.30-12.45</td>
<td>Key Note Lecture</td>
<td>Adverse effects of steroid therapy in acute spinal cord injury management</td>
<td>Victor Rerikh et al., Russia</td>
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<tr>
<td>12.45-13.00</td>
<td>MIS Instrumentation</td>
<td>MIS instrumentation in trauma</td>
<td>Nikolay Gabrovsky et al., Bulgaria</td>
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<td>13.00-13.15</td>
<td>Early Surgery and Instrumentation</td>
<td>Early surgery and instrumentation in cervical spine tuberculosis - rationale and decision making</td>
<td>Harjinder S. Bhatoe et al., India</td>
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<tr>
<td>13.15-13.30</td>
<td>Unilateral recurrent lumboischialgia</td>
<td>Unilateral recurrent lumboischialgia of unknown cause – a diagnostic and therapeutic challenge</td>
<td>Ivan Stefanovic, Serbia</td>
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<td>13.30-14.15</td>
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<td>Commercial Symposium HAAG STREIGHT SURGICAL, Exhibition Area</td>
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<td>13.30-14.15</td>
<td>Russian Neurosurgical Society</td>
<td>Russian Neurosurgical Society EC and WFNS Spine Committee Business Meeting - Residence Room</td>
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### MAIN SCIENTIFIC SESSION 4: BASIC SCIENCE AND SPINE TUMORS

**Moderators:** Sergey Kolesov, Andreas Demetriades, Stefano Ferraresi

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<td>Treatment of chronic pain after transpedicular fixation</td>
<td>Tito Perilla, Colombia</td>
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<td>Complications in spine surgery</td>
<td>Keki Turel, India</td>
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<td>14.45-15.00</td>
<td>Spine and spinal cord disorders: advanced treatment concept</td>
<td>Spine and spinal cord disorders: advanced treatment concept</td>
<td>Dmitry Asyutin, Russia</td>
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<td>15.00-15.15</td>
<td>Endovascular treatment of spinal AVMs and vascular tumors</td>
<td>Endovascular treatment of spinal AVMs and vascular tumors</td>
<td>Teodor Tissen, Russia</td>
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<td>15.15-15.30</td>
<td>Radiosurgery For Spinal Metastasis</td>
<td>Radiosurgery For Spinal Metastasis</td>
<td>Selçuk Peker, Turkey</td>
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<td>15.30-15.45</td>
<td>Chronic spinal cord stimulation in the treatment of failed back surgery syndrome</td>
<td>Chronic spinal cord stimulation in the treatment of failed back surgery syndrome</td>
<td>Emil Isagulyan et al., Russia</td>
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<td>15.45-16.00</td>
<td>Intraoperative neurophysiological monitoring for spinal cord tumors surgery</td>
<td>Intraoperative neurophysiological monitoring for spinal cord tumors surgery</td>
<td>Slavko Djuraskovic et al., Montenegro</td>
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16.00-16.15 Results of surgical treatment of cavernous malformations of the spinal cord
Bahramkhon Zakirov et al., Russia

16.15-16.30 Spinal cord tumors in Montenegro
Novak Lakicevic, Montenegro

16.30-16.45 Discussion

16.45-17.00 Coffee break

**ORAL PRESENTATIONS 2**
Moderators: Sergey Mlyavykh, Novak Lakicevic, Venko Filipce

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<td>17.00-17.10</td>
<td>OP12. Cervical spinal stenosis treatment by interlaminar full endoscopy</td>
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<td>Marcio Ramalho da Cunha et al., Brazil</td>
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<td>17.10-17.20</td>
<td>OP13. Severity of the spinal stenosis - a novel classification method</td>
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<td>Milenko Stanic et al., Serbia</td>
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<td>17.20-17.30</td>
<td>OP14. Economic costs in discitis treatment</td>
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<td>Mustafa Ogden, Turkey</td>
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<td>OP15. Transcorporeal anterior cervical microforaminotomy; a motion preserving</td>
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<td>surgery in pure brachialgia</td>
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<td>Moshiur Rahman, Bangladesh</td>
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<td>OP16. Role of the O-arm and neuronavigation in the management of complex spine</td>
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<td>Walid Attia et al., Saudi Arabia</td>
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<td>OP17. Predictors of surgical outcome in cervical spondylotic myelopathy</td>
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<td>OP18. Use of nitinol rods for fixation of the lumbar spine (prospective multi-center study)</td>
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<td>Kazmin Arkadii et al., Russia</td>
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<td>OP19. The role of endoscopy in treating spinal stenosis</td>
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<td>Miljan Mihajlovic et al., Serbia</td>
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<td>OP20. Age-related prevalence of degenerative cervical pathology</td>
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<td>Niamen Patrice Koffi et al., Morocco</td>
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<td>OP21. Factors affecting outcome after lumbar disc surgery - How close are we to</td>
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<td>Mladen Karan et al., Serbia</td>
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<td>Bojan Jelaca et al., Serbia</td>
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08.00 -19.00 **E-POSTER PRESENTATION**
Area for Poster presentation

20.00-01.00 **Gala dinner**
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<td>PLENARY SESSION 2</td>
<td>Adult Scoliosis and Complication Management</td>
<td>Jesus Lafuente, Spain</td>
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<td>08.20-08.40</td>
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<td>Microsurgical education today and the role of neurosurgical organizations</td>
<td>Torstein Meling, Norway</td>
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<td>08.40-09.00</td>
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<td>From simulation through cadaver training to patient care: a safe way to educate spinal surgeons</td>
<td>Karl Schaller, Switzerland</td>
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<td>Surgical Treatment of Cervical Spine Trauma</td>
<td>Vadim Manukovsky, Russia</td>
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<td>Occipito-Cervical Fixation: Evolution and Current Concepts</td>
<td>Miguel Arraez Sanchez, Spain</td>
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<td>09.40-10.10</td>
<td>SNSS Tribute: MILIVOJE KOSTIC LECTURE 2</td>
<td>Low-grade infection in spinal instrumentation: is this the real cause of screw loosening?</td>
<td>Bernhard Meyer, Germany</td>
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<td>INTRO Lukas Rasulic</td>
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<td>10.10-10.30</td>
<td>SPECIAL GUEST LECTURE</td>
<td>Computational modeling of spine and spinal implants</td>
<td>Nenad Filipovic, Serbia</td>
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<td>10.45-11.00</td>
<td>MAIN SCIENTIFIC SESSION 5: BASIC SCIENCE AND NEW TECHNOLOGIES</td>
<td>Key Note Lecture: Image guidance for cervical spine surgery. Is there an added value? Experience of 170 cases</td>
<td>John Duff, Switzerland</td>
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<td>11.00-11.15</td>
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<td>Key Note Lecture: New technologies for the treatment of degenerative scoliosis</td>
<td>Sergey Kolesov et al., Russia</td>
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<td>11.15-11.30</td>
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<td>Adverse Events Related to Peripheral Nerves Following Spine Surgery-Complications, Sequellae, Mistreatment: Avoidance, Treatment Modalities and Outcome</td>
<td>Lukas Rasulic, Serbia</td>
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<td>11.30-11.45</td>
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<td>Cervical arthroplasty with discover; long term results and influence on the cervical biomechanics</td>
<td>Miroslav Vukic et al., Croatia</td>
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11.45-12.00 Spinal navigation: past, present and future
Francesco Costa et al., Italy

12.00-12.15 MISS (minimally invasive spinal surgery, the concept. MISS is not a miss-surgery)
Nikolay Peev, Ireland

12.15-12.30 The new philosophy of spine surgery in spinal cords or nerve root’s compressive syndromes
Michalakis Spyrou et al., Cyprus

12.30-12.45 A neuro-fuzzy model for supporting the diagnosis of lumbar disc herniation
Miodrag Peulic, Serbia

12.45-13.00 Discussion

13.00-13.30 Lunch

13.00-13.30 Commercial Symposium KOC UNIVERSITY, Exhibition Area

13.00-13.30 Southeast Europe Neurosurgical Society EC Business Meeting - Board Room

13.30-14.15 RAPID CROSSFIRE SESSION 1
COMPLEX AND COMPLICATED CASES - OPEN ACCESS PANEL SESSION
Moderators: Mehmet Zileli, Karl Schaller, Jesus Lafuente, Enrique Osorio-Fonseca, Nebojsa Stojanovic

14.15-14.30 KEY NOTE LECTURE
Management of fractures in ankylosing spondylitis
Mehmet Zileli, Turkey

14.30-14.45 KEY NOTE LECTURE
Minimal invasive surgery in spine trauma
Tiberiu Maior, Romania

14.45-15.00 CSF leakage following spine surgery: prevention and management
İhsan Solaroğlu, Turkey

15.00-15.15 War injuries of the spinal cord
Ljubodrag Minic, Serbia

15.15-15.30 Cervical spine fracture
Fatos Olldashi, Albania

15.30-15.45 Trauma of the spinal column - what should be seen by a neuroradiologist in order for the neurosurgeon to do what needs to be done
Zoran Radovanovic, Serbia

15.45-16.00 Central cord syndrome
Panagiotis Selviaridis, Greece

16.00-16.15 Spine injuries and disorders - emergency centre as a crossroad for right treatment
Miljan Jovic et al., Serbia

16.15-16.30 Discussion

16.30-16.45 Coffee break
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<td>16.45-17.00</td>
<td><strong>KEY NOTE LECTURE</strong></td>
<td>Surgery around the neuroforamen. Indications and technique for dumbbell pathology in the cervical area. Stefano Ferraresi, Italy</td>
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<td>17.00-17.15</td>
<td><strong>KEY NOTE LECTURE</strong></td>
<td>Results of surgical treatment of extramedullary spinal cord tumors. Roman Onoprienko, Russia</td>
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<td>17.15-17.30</td>
<td>Spinal AVM</td>
<td>Mohammad Al-Olama, UAE</td>
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<td>17.30-17.45</td>
<td>Intradural Spinal Tumors: Surgical Considerations and Institutional Experience</td>
<td>Tomislav Sajko, Croatia</td>
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<td>Extent of surgical resection of malignant astrocytoma of the spinal cord</td>
<td>Vincenzo Paterno, Germany</td>
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<td>Spinal Schwannomatosis</td>
<td>Martin Smrcka, Czech Republic</td>
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<td>18.15-18.30</td>
<td>Spinal Tumours Treatment-Our Experience</td>
<td>Rasim Skomorac et al., Bosnia and Herzegovina</td>
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<td>18.30-18.45</td>
<td>Spine Surgery in XXI century - Anesthesiologist Point of view</td>
<td>Inga Mladic Batinica, Croatia</td>
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<td>Intradural Spine Tumor Surgery-Institutional Experience</td>
<td>Djula Djilvesi et al., Serbia</td>
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MAIN SCIENTIFIC SESSION 8: MINIMAL INVASIVE SPINE SURGERY
Moderators: Sergey Mlyavykh, Marko Markovic, Mitja Benedicic

HALL 2

10.45-11.00 **KEY NOTE LECTURE**
Endoscopic approaches in lumbar degenerative diseases
Enrique Osorio-Fonseca et al., Colombia

11.00-11.15 **KEY NOTE LECTURE**
Preliminary experience with percutaneous cervical arthrodesis and fusion
Giovanni Broggi, Italy

11.15-11.30 Percutaneous endoscopic transforaminal approach for foraminal and extraforaminal disc herniations: 5-year experience
Natale Francaviglia et al., Italy

11.30-11.45 Full-endoscopic system utilization for decompression of nerve structures on lumbar level of the spine. first experience report
Vasily Korolishin, Russia

11.45-12.00 Lumbar angiolipoma removal via percutaneous endoscopic interlaminar approach
Marcio Ramalho da Cunha et al., Brasil

12.00-12.15 Mini-invasive and innovative technologies in the surgery of the pathological processes of the skull base and the craniovertebral junction
Alexey Shkarubo, Russia

12.15-12.30 Minimally invasive approach for surgical treatment of craniovertebral junction meningiomas
Stanislav Kaprovoy et al., Russia

12.30-12.45 CT accuracy of percutaneous vs open and manually-registered pedicle screw techniques: a single center non-randomized clinical trial
Alexandros Brotis et al., Greece

12.45-13.00 **Discussion**

13.00-13.30 **Lunch**

13.00-13.30 Commercial Symposium KOC UNIVERSITY, Exhibition Area

13.30-14.15 **RAPID CROSSFIRE SESSION 2**
COMPLEX AND COMPLICATED CASES - OPEN ACCESS PANEL SESSION
Moderators: Bernhard Meyer, Nikolay Konovalov, Kevin Foley, John Duff, Peter Banczerowski
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Lumbar disc herniation: is microsurgery exceeded?  
Alberto Delitala, Italy |
| 14.30-14.45 | **KEY NOTE LECTURE**  
Degenerative low and high grade spondylolisthesis  
Andreas Demetriades, UK |
| 14.45-15.00 | **Lumbar Spine Instrumentation**  
Milos Jokovic, Serbia |
| 15.00-15.15 | **Different Microsurgical Non-fusion Techniques for Cervical Radiculopathy**  
Yury Shulev et al., Russia |
| 15.15-15.30 | **Anterior cervical corpectomy in the treatment of degenerative and tumorous processes of the cervical spine**  
Mitja Benedicic, Slovenia |
| 15.30-15.45 | **Anterior cervical approach for the treatment of cervical myelopathy**  
Danilo Radulovic, Serbia |
| 15.45-16.00 | **Biological nucleoplasty - emerging treatment**  
Vladimir Papic et al., Serbia |
| 16.00-16.15 | **Central Cord Syndrome - Surgical Treatment Nuances**  
Nenad Novakovic et al., Serbia |
| 16.15-16.30 | **Discussion** |
| 16.30-16.45 | **Coffee break** |
### MAIN SCIENTIFIC SESSION 10: GROWING SPINE AND ADULT DEFORMITIES
Moderators: Aleksandr Mushkin, Bruno Splavski, Zdeslav Milinkovic

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<td>16.45-17.00</td>
<td><strong>KEY NOTE LECTURE</strong> Surgical treatment of adolescent idiopathic scoliosis Norberto Ventura, Spain</td>
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<td>17.00-17.15</td>
<td><strong>KEY NOTE LECTURE</strong> Sagittal balance in spinal neurosurgery Evgeny Brinyuk, Russia</td>
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<td>17.15-17.30</td>
<td><strong>KEY NOTE LECTURE</strong> Accurate Placement of Percutaneous Pedicle Screws without the Use of Neuronavigation/O-arm Technology and Reduction-fixation of Lumbar Spondylolisthesis by Percutaneous Pedicle Screws and a Minimal Access approach Sujoy Sanyal, India</td>
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<td>17.30-17.45</td>
<td>Treatment of the degenerative diseases of vertebral column Branko Djurovic, Serbia</td>
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<td>17.45-18.00</td>
<td>Comparative analysis of surgical treatment of patients with congenital thoracic spine deformities using thoracic expansion devices and spinal correction and fusion Sergey Vissarionov, Russia</td>
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<td>18.00-18.15</td>
<td>Segmental stabilisation of pathologic fractures of thoracolumbar spine Stanko Milickovic, Serbia</td>
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<td>18.15-18.30</td>
<td>Post operative pain in lumbar degenerative spine surgery Said Ait Benali, Morocco</td>
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<td>18.30-18.45</td>
<td>Modern treatment options for degenerative scoliosis Goran Pavlichevic, Serbia</td>
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<td>18.45-19.00</td>
<td>Surgical treatment of single level degenerative cervical disc disease treated with ACDFP Aleksandar Caparoski et al., Macedonia</td>
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<td><strong>E-POSTER EVALUATION AND DISCUSSION SESSION</strong> Area for Poster presentation Moderators: Martin Smrcka, Anton Nazarenko, Vladimir Papic</td>
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<td>08.00-08.20</td>
<td>Outpatient Cervical Spine Surgery</td>
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<td>Eirik Helseth, Norway</td>
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<td>08.20-08.40</td>
<td>The videoendoscopic techniques in the surgical treatment of patients with thoracolumbar trauma</td>
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<td>Andrey Grin et al., Russia</td>
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<tr>
<td>08.40-09.00</td>
<td>Current concept in minimal invasive spine surgery</td>
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<td>Kresimir Rotim, Croatia</td>
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<tr>
<td>09.00-09.20</td>
<td>The correction of degenerative scoliosis of adults with the use of minimally invasive technologies (LLIF, ALIF, MIS posterior fixation)</td>
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<td>Vladimir Klimov et al., Russia</td>
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<tr>
<td>09.20-09.40</td>
<td>Surgical management of the vascular malformations of the spinal cord</td>
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<td>Marcel Ivanov, UK</td>
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<tr>
<td>09.40-10.00</td>
<td>Multilevel VCR in the treatment of complex spinal deformities in adults</td>
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<td>Dmitry Ptashnikov, Russia</td>
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<tr>
<td>10.00-10.30</td>
<td>SNSS Tribute: MADJID SAMII LECTURE 2</td>
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<tr>
<td></td>
<td>Modern aspects of minimally invasive spinal surgery, ICT and navigation</td>
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<td>Nikolay Konovalov, Russia</td>
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<tr>
<td>10.30-10.45</td>
<td>Coffee break</td>
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\textit{SNSS tribute: MADJID SAMII LECTURE 2}

\textit{INTRO Lukas Rasulic}
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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</thead>
<tbody>
<tr>
<td>10.45-11.00</td>
<td>KEY NOTE LECTURE</td>
<td>Roberto Delfini, Italy</td>
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<tr>
<td></td>
<td>Evolution of minimally-invasive techniques in instrumented thoraco-lumbar surgery: our experience</td>
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<tr>
<td>11.00-11.15</td>
<td>KEY NOTE LECTURE</td>
<td>Peter Banczerowski et al., Hungary</td>
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<td>Role of minimal invasive techniques and new classification system in the surgical treatment of pathologies situated in the spinal canal</td>
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<tr>
<td>11.15-11.30</td>
<td>Do obese patients benefit from minimally invasive lumbar fusion techniques?</td>
<td>Wolfgang Senker, Austria</td>
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<tr>
<td>11.30-11.45</td>
<td>MIS Techniques in Our Adult Deformity Practice: Real Opportunities and Pitfalls</td>
<td>Sergey Mlyavykh et al., Russia</td>
</tr>
<tr>
<td>11.45-12.00</td>
<td>Full-endoscopic operations of lumbar disc herniation and spinal stenosis - state of the art, possibilities and retrospective review of overall 1054 operated patients</td>
<td>Marko Markovic et al., Serbia</td>
</tr>
<tr>
<td>12.00-12.15</td>
<td>Transforaminal endoscopic discectomy - why this is the best surgery what we can offer to our patients</td>
<td>Robert Saftic et al., Croatia</td>
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<tr>
<td>12.15-12.30</td>
<td>Endoscopic-assisted fenestration and discectomy in lumbar disc hernia using EasyGo</td>
<td>Roman Bosnjak et al., Slovenia</td>
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<tr>
<td>12.30-12.45</td>
<td>Percutaneous minimally invasive procedures for osteoporotic vertebral compression fractures – current concepts</td>
<td>Yavor Enchev et al., Bulgaria</td>
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<tr>
<td>12.45-12.55</td>
<td>Discussion</td>
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<tr>
<td>Time</td>
<td>Session Title</td>
<td>Presenters</td>
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<tr>
<td>13.00</td>
<td>YA1. Microsurgical Discectomy – Discectomy or Segmental Decompression, a Technical Approach</td>
<td>Igor Popovic et al., Serbia</td>
</tr>
<tr>
<td>13.08</td>
<td>YA2. Spinal Stenosis Patophysiology – Histological Analysis of the Ligamentum Flavum</td>
<td>Vuk Aleksic et al., Serbia</td>
</tr>
<tr>
<td>13.40</td>
<td>YA6. Short term outcome of surgical treatment of patients with lumbar disc herniation</td>
<td>Miroslav Fimic et al., Serbia</td>
</tr>
<tr>
<td>13.48</td>
<td>YA7. Is a picture worth a thousand words? Correlation between MRI findings and clinical presentation in patients with lumbar disc herniation and nerve root compression</td>
<td>Filip Pajicic et al., Serbia</td>
</tr>
<tr>
<td>13.56</td>
<td>YA8. Complications after surgery for thoracic disc herniation: a systematic review and network meta-analysis</td>
<td>Christos Tzerefos et al., Greece</td>
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<tr>
<td>14.04</td>
<td>YA9. Experience of using laser effects on the intervertebral disc with puncture access</td>
<td>Angelina Gorodnina, Russia</td>
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<tr>
<td>14.20</td>
<td>YA11. Intramedullary melanocytoma of the cervical cord: case report</td>
<td>Paschalis Tsolpidis et al., Greece</td>
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<tr>
<td>14.30</td>
<td>YOUNG NEUROSURGEONS AWARD</td>
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<tr>
<td>15.00</td>
<td>BEST ORAL PRESENTATION AND E-POSTER AWARDS CLOSING CEREMONY</td>
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</tbody>
</table>
MAIN SCIENTIFIC SESSION 12: GROWING SPINE AND ADULT DEFORMITIES
Moderators: Sergey Vissarionov, Ibrahim Omerhodzic, Danilo Radulovic

HALL 2

10.45-11.00 KEY NOTE LECTURE
The cervical spine congenital and genetic abnormalities and deformities
Alexander Gubin et al., Russia

11.00-11.15 KEY NOTE LECTURE
Neurophysiological aspects to motor control of lumbar cord and spine
Milan Dimitrijevic, USA

11.15-11.30 Surgical techniques and planning in treatment of 3D spinal deformities
Zdeslav Milinkovic, Serbia

11.30-11.45 Evaluating management strategies and outcome measures for patients
with synovial cysts of the lumbar spine
Bruno Splavski et al., Croatia

11.45-12.00 Non-traumatic cervical-thoracic surgical spinal pathology in children
Alexander Mushkin et al., Russia

12.00-12.15 Efficacy of DREZ lesioning in managing pain following spinal cord injury
Milan Spaic, Serbia

12.15-12.30 Surgery of adolescent idiopathic scoliosis
Onur Yaman, Turkey

12.30-12.45 Cheep and efficient lumbar fixation and fusion
Imad Talahma, Palestine

12.45-12.55 Discussion
Friday, October 5th - Sunday, October 7th, 2018

E-POSTER SESSION

Area for Poster Presentation

EP1. Use of X-RAY guided transforaminal periradicular infiltration for sciatica
Nenad Zivkovic et al., Serbia

EP2. A novel approach in isthmic spondylolisthesis; spino-semilaminafacet sparing
Ahmet Öğrenci, Turkey

EP3. The Effect of the Location of Dural Tear and Repairment in Pneumocephalus After Spinal Surgery
Ahmet Öğrenci, Turkey

Mirjana Raicevic et al., Serbia

EP5. The effect of intraoperative positioning on lumbar lordosis
Murat Sayin, Turkey

EP6. Full-Endoscopic radiofrequency ablation for treatment of facet joint pain
Nenad Zivkovic et al., Serbia

EP7. Spontaneous regression of cervical disc herniation in a patient with myelopathy
Danilo Radulovic et al., Serbia

EP8. Cervical spondylotic myelopathy: 4 years of retrospective outcome analysis
Danilo Radulovic et al., Serbia

EP9. Intraoperative neurophysiological monitoring during anterior cervical discectomy and fusion
Vedrana Karan et al., Serbia

EP10. Recovery of the patients operated from lumbar disc hernia: risk factor - smoking
Aleksandar Kostic et al., Serbia

EP11. Comparison of cortical bone trajectory screws vs. transpedicular screws for spinal fusion at L4-L5 level
Pen Matic et al., Slovenia

Boris Djurovic et al., Montenegro

Boris Djurovic et al., Montenegro
Tomaz Velnar et al., Slovenia

EP15. The combination of spinal degeneration and oscillation may result in atypical cervical spinal cord injury: a case series
Tomaz Velnar et al., Slovenia

Vojin Kovacevic et al., Serbia

EP17. Factors that correlate with favorable outcome in surgical treatment of lumbar disc herniation
Vojin Kovacevic et al., Serbia

Andrija Savic et al., Serbia

EP19. Full-Endoscopic Decompression of Spinal Canal for Patients with Spinal Stenosis: Prospective Randomized Trial of Overall 108 Patients
Marko Markovic et al., Serbia

EP20. Idiopathic Spontaneous Spinal Epidural Hematoma: Case Presentation and Literature Review
Jagos Golubovic et al., Serbia

EP21. Risk factors for recurrent lumbar disc herniation after single level microdiscectomy
Nebojsa Lasica et al., Serbia

EP22. Review of lumbosacral plexopathies in diabetic patients
Kristina Stepanovic et al., Serbia

EP23. Spontaneously resolved large extruded lumbar disc
Bojana Zivkovic et al., Serbia
SOCIAL PROGRAM

THURSDAY
October 4th, 2018

WELCOME FACULTY RECEPTION
(by invitation only)
Venue: Restaurant Sunset, Hotel “Tami Residence”, Nis, Serbia
20.00 - 22.00

FRIDAY
October 5th, 2018

GALA DINNER
Venue: Officers Club, Nis, Serbia
Address: Orlovica Pavla 28a, Nis
20.00 - 01.00
Dress code: Black tie

SATURDAY
October 6th, 2018

TRADITIONAL SERBIAN DINNER
Venue: Restaurant “Stara Srbija”, Nis, Serbia
Address: Trg Republike 12, Nis
20.30 - 01.00
Dress code: Smart casual
You are kindly invited to submit your abstract for the event Spine surgery in XXI century, either for oral or poster presentation. Abstract(s) should be submitted on line on the web site http://snssspine2018.talkb2b.net/.

The abstract should be submitted by September 10th, 2018.

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

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 September 20th, 2018. (contact Congress Secretary if you have not received your notification e-mail by September 20th, 2018).
- 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.

www.snssspine2018.talkb2b.net
Continuing the good practice established at The First Annual Meeting of the Serbian Neurosurgical Society held in Belgrade in 2015, SNSS and SeENS are pleased to announce the Best Young Neurosurgeon Paper and Presentation Award for 2018, within their joint session.

Eligible for the award are scientific papers by young neurosurgeons from Serbia and abroad (up to 40 years of age). The papers submitted for the award will be presented by their authors and assessed by a jury of national and international experts.

AWARDS:

SNSS and SeENS - Full Participation at WFNS 2019 International Meeting which will be held in Belgrade from March 21st – 24th, 2019 (2 awards)

We are also pleased to announce Young Neurosurgeons’ Forum as a special segment of the academic program of the Congress.

Abstract submission deadline: September 10th, 2018
Instructions for presentations are the same as for the General Congress Abstracts.

NOTIFICATION OF ACCEPTANCE

Notification of acceptance / rejection will be mailed not later than September 20th, 2018. (contact Congress Secretary if you have not received your notification e-mail by September 20th, 2018).

The corresponding author will receive any correspondence concerning the abstract.
Niš is the third largest city of Serbia, and the administrative center of the Nišava District in southern Serbia. It is one of the oldest cities in the Balkans and Europe, and has from ancient times been considered a gateway between the East and the West. The city was among several taken in the Roman conquest in 75 BC; the Romans built the Via Militaris in the 1st century, with Naissus being one of its key towns. It is also the birthplace of Constantine the Great, the first Christian Emperor and the founder of Constantinople, and Constantius III and Justin I.

It is home to one of the oldest churches in Serbia, dating to the 4th century, located in the suburb of Mediana. The town was named after the Nišava River, which flows through the city and which was named Navissos by the Celtic.

Niš is one of the most important industrial centers in Serbia, a center of electronics industry, industry of mechanical engineering, textile and tobacco industry. Constantine the Great Airport is its international airport. In 2013 the city was host to the celebration of 1700 years of Constantine’s Edict of Milan.

VENUE:
Tami Residence Hotel****
Niš, Serbia
Honorable participants, we have negotiated travel discounts and secured a limited number of reduced-rate hotel rooms to make your trip to Nis affordable. These hotels have been selected because they are well-situated, provide best rates and have consistently shown a high level of service. Please select and book preferred accommodation online on our website www.snssspine2018.talkb2b.net.

**Accommodation**

**TAMI RESIDENCE 4***
Headquarters Hotel / Conference hotel

Durmitorska N/A, Niš, Serbia

Located just 2.5 km from the city’s historic center, offers free Wi-Fi access and rooms with satellite TV. Parking is free. Constantine the Great Airport is less than 5 km away.

**NEW CITY HOTEL 4***

Vožda Karađorđa 12, Niš, Serbia
Distance from Headquarters Hotel: 2,4 km

Set in a central location right across the main square, New City Hotel offers modernly decorated and spacious rooms and a restaurant. Free Wi-Fi is available throughout the property. Constantine the Great Airport in Niš is located at a distance of only 4 km.

**HOTEL ALEKSANDAR 3***

Njegoševa 81 A, Niš, Serbia
Distance from Headquarters Hotel: 0,7 km

Boasting panoramic views over Nis, Hotel Aleksandar is only 4 minutes from the city center, providing 3 restaurants, free guarded parking and free Wi-Fi. Constantine the Great Airport in Niš is located at a distance of only 4 km.

**ACCOMMODATION CANCELLATION TERMS**

- Requests for accommodation cancellation must be submitted in writing to the Congress Secretariat at spineserbia2018@snss.org.rs. Refund will be made only after the conference and only applicable under following circumstances.
- For cancellations received until September 1st 2018 refund of accommodation fees will be 100%.
- For cancellations received between September 2nd and September 20th 2018 refund of accommodation fees will be 50%.
- For cancellations received on September 21st 2018 and after, no refund
- Please note that registration refunds will be processed within 30 days after the end of Congress, 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 spineserbia2018@snss.org.rs
- For more information about accommodation in Nis, please see recommendation of the Tourism Organization of Nis at http://www.visitnis.com/hotels.html.

www.snssspine2018.talkb2b.net
How to Get to Nis

By Air

Serbia has two international airports, the main one being Belgrade’s Nikola Tesla International Airport (BEG) with an ideal location, at the crossroads of major air routes with 37 airlines connecting the capital of Serbia with more than 70 destinations throughout Europe, Middle East and North Africa in scheduled, charter and cargo air traffic.

By Bus

E-70 and E-75 international routes connect all major towns in Serbia (Belgrade, Novi Sad, Subotica, Nish...). Belgrade lies along the E-70 and E-75 connecting Western and Northern Europe on one side and Southern and Eastern Europe on the other. Serbia has 40,000 km of roadways, including 600 km of expressways.

By Rail

The capital city, Belgrade, has regular and direct rail connections with capital cities in Central and Eastern Europe. International passenger trains include a regular day and night train, the ‘Avala’, that goes from Belgrade to Budapest, and Vienna. There are also trains on every-day basis running from Belgrade to Zurich (Switzerland), Munich (Germany), Ljubljana (Slovenia), Banja Luka (Bosnia), Sofia (Bulgaria), Bucharest (Romania), and Thessaloniki (Greece).

Nis is well connected to the European and Serbian railroad network. The train station is not far from the city centre while main bus station is 10 minutes walking distance. Only 10 minutes from the centre is the airport, Constantine the Great. Its huge runway is adequate for landing big planes and suitable for charter flights.

www.snssspine2018.talkb2b.net
HOW TO GET TO NIS

DIRECT FLIGHTS TO / FROM NIŠ

**RYANAIR:**
- Bergamo (Milano) - Tuesday and Saturday
- Bratislava - Monday and Friday
- Berlin - Thursday and Sunday
- Dusseldorf, Weeze Airport - Thursday and Sunday
- Stockholm - Thursday and Sunday

**WIZZ AIR:**
- Dortmund - Monday and Friday
- Basel - Tuesday, Thursday and Saturday
- Memmingen (Munich) - Tuesday and Saturday
- Malmo - Monday and Friday

**SWISS:**
- Zurich - Wednesday, Friday and Sunday
Registration and abstract submission are available at the Congress website:

www.snssspine2018.talkb2b.net

Welcome to Niš, Serbia!

SNSS & SeENS
Technical support and organisation:

Ultra Marine d.o.o.
tel. +381 11/361 89 89, +381 11/334 81 58
fax. +381 11/334 82 55, +381 11/334 94 51
e-mail: spineserbia2018@snss.org.rs
office@snss.org.rs
office@ultramarine.rs
web: www.snss.rs