SPINE SURGERY IN XXI CENTURY
current concept, controversies, perspectives
SECOND ANNOUNCEMENT & PRELIMINARY PROGRAM

Endorsed by
- Ministry of Health, Republic of Serbia
- Ministry of Education, Science and Technological Development, Republic of Serbia
- School of Medicine, University of Belgrade
- School of Medicine, University of Nis
- Serbian Academy of Sciences and Arts
- Clinical Center Nis

Supported by
- National tourism organisation of Serbia
- Serbia Convention Bureau

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

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 Neurological Society, which will be held in NIȘ, 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 Niš in order to improve the quality of neurological 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 Niš.

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 Niš, 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, Niš 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 Niš in October 2018, convinced that our gathering will provide many memorable scientific and social moments.

We look forward to welcoming you in Niš!

Prof. Dr Lukas Rasulic
President of the Serbian Neurosurgical Society
Honorary President of the Congress
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 neurological 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
Director

Nikolay Konovalov, MD, PhD
Professor of 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 Niš, 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
Welcome Message

Dear Colleagues, Ladies and Gentlemen,

As the Honorary President of SouthEast Europe Neurosurgical Society and President of 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 21st 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 Niš, 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 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.

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 Niš, where Emperor Constantin, the „Emperor of the Christian people” was born.

I cordially invite You to Niš, 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 Niš, 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 Niš, 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, Niš 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
PhD, MD, neurosurgery
President of the Organizing Committee
Under the auspices of the President of the Republic of Serbia
H.E. Mr. Aleksandar Vučić

Honorary Presidents of the Congress

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Belgrade, Serbia

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Moscow, Russia

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Moscow, Russia

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Zileli Mehmet, Turkey

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"The Spine surgery in XXI century- current concept, controversies, perspectives, Niš, 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 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

PRELIMINARY PROGRAM

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

*Preliminary program is subject to change.

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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
Thursday, 4th October 2018

9.00 - 9.15  Registration

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.

9.15 - 9.30  Biolitec company and Laser introduction,
Dr Ninoslav Ribic, Serbia

9.30 - 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, Hotel “Tami Residence
Thursday, 4th October 2018

9.00 - 9.15  Registration

13.00-18.00  PRE-MEETING COURSE - SPINAL INSTRUMENTATION AND NAVIGATION

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.
Friday, 5th October 2018

07.00  Registration

OPENING CEREMONY

08.00-09.00  Welcome Addresses
- Prof. Dr Lukas Rasulic, Honorary President of the Congress, SNSS President, SeENS President
- The President of the Republic of Serbia
- Ministry of Health of Republic of Serbia - TBA
- Prof. Dr Nikolay Konovalov, Honorary President of the Congress
- Prof. Dr Alexander Konovalov, President of the Association of Neurosurgeons of Russia
- Prof. Dr Mehmet Zileli, Chairman 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
- Serbian Academy of Sciences and Arts - TBA
- Prof. Dr Dragan Antic, Rector of the University of Nis
- Prof. Dr Dobrilja 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

09.00-09.30  SNSS Tribute: Professor MILIVOJE KOSTIC LECTURE 1
Where Will We Be Tomorrow: The Future of Minimally Invasive Surgery
Kevin Foley, USA
INTRO Lukas Rasulic

09.30-10.00  SNSS Tribute: Professor MADJID SAMII LECTURE
Problems and Solutions in Geriatric Spine Surgery
Mehmet Zileli, Turkey
# PLENARY SESSION 1

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

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<td>10.00-10.20</td>
<td>Tumor Surgery of Craniovertebral Junction</td>
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<td>Madjid Samii, Germany</td>
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<td>10.20-10.40</td>
<td>Modern Aspects of Minimally Invasive Spinal Surgery</td>
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<td>Nikolay Konovalov, Russia</td>
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<td>10.40-11.00</td>
<td>Management of Spondylolisthesis</td>
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<td>Peter Vajkoczy, Germany</td>
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<td>11.00-11.20</td>
<td>Spinal Surgery in Russia - Trends, Highlights, Outstanding Issues</td>
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<td>Artem Gushcha, Russia</td>
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<td>11.20-11.40</td>
<td>Spine Surgery Today: Appropriate or Over Indication?</td>
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<td>Francesco Tomasello, Italy</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:** Peter Vajkoczy, Mehmet Zileli, Artem Gushcha

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<td>KEY NOTE LECTURE</td>
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<td>Lumbar Dynamic Pedicle-Based Stabilization versus Fusion in Degenerative Disease: Preliminary Results of the DYNORFUSE Prospective Randomized Trial</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, Complications Rates and Costs between Outpatient and Inpatient Surgery Groups with a Literature Review</td>
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<td>Kenan Arnautovic, USA</td>
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<td>12.30-12.45</td>
<td>Electrophisiological Monitoring in Spinal Disease</td>
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<td>12.45-13.00</td>
<td>Surgical Outcome Prognosis for Degenerative Lumbar Spine Disease</td>
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<td>Anton Nazarenko, Russia</td>
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<td>13.00-13.15</td>
<td>Three and Four Level ACDF: How I Do It</td>
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<td>Ibrahim Omerhodzic, Bosnia and Herzegovina</td>
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<td>13.15-13.30</td>
<td>Spine Surgery in XXI century - Anesthesiologist Point of view</td>
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<td>Inga Mladic Batinica, Croatia</td>
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<td>Lunch</td>
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<td>13.30-14.15</td>
<td>Russian Neurosurgical Society EC Business Meeting - Board room</td>
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<td>14.15-14.30</td>
<td>KEY NOTE LECTURE: Anterior Unkoforaminotomy in Treatment of Patients with Radicular Pain Caused by Lateral Stenosis at Degenerative Cervical Spine Pathology</td>
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<td>14.30-14.45</td>
<td>KEY NOTE LECTURE: &quot;Percutaneous Laser Disc Decompression&quot; by a Diode Laser - a Minimal Invasive Outpatient Treatment for Contained Disc Herniations</td>
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<td>14.45-15.00</td>
<td>Intraoperative Neurophysiological Monitoring in Degenerative Cervical Spine Surgery</td>
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<td>15.00-15.15</td>
<td>Degenerative Lumbar Spine: Protocols and When the Unusual Approaches are Better</td>
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<td>Failed Back Surgery</td>
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<td>15.30-15.45</td>
<td>New Concepts for Using the Arthroplasty in the Degenerative Changes of the Cervical Spine</td>
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<td>15.45-16.00</td>
<td>Multisegmental 3D Approaches in Resolving Pathological processes of the Cervical Spine</td>
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<td>16.00-16.15</td>
<td>My Experience with Cervical Spine Surgery and Stabilization</td>
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<td>16.15-16.30</td>
<td>Lumbar Spine Stenosis: Prevalence and Morphology of Ossification of the Ligamentum flavum</td>
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<td>16.30-16.45</td>
<td>Discussion</td>
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<td>16.45-17.00</td>
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ORAL PRESENTATIONS 1
Moderators: Dmitry Dzukaev, Miroslav Vukic, Goran Pavlicevic

17.00-17.10  Dr. Vladimir Petrovich Pasek - the first registered neurosurgeon?  
Milan Spaic, Serbia  

17.10-17.20  Prognostic value of intraoperative monitoring in Spinal Surgery  
Boban Joksimovic, Serbia  

17.20-17.30  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 Öğrenci, Turkey  

17.30-17.40  Cervical Radiculopathy vs. Carpal Tunnel Syndrome – The Shared Theritory  
Miljan Bulatovic, Serbia  

17.40-17.50  Iatrogenic Injuries of the Paravertebral Vessels at Operative Treatment of the Lumbal  
Vertebra Disc Hernias - Presentation of the Two Cases  
Andrej Prija, Slovenia  

17.50- 18.00  Anesthesia in Spine Surgery with Neuromonitoring: Current Concept and our Experience  
Sanja Maricic Prijic, Serbia  

18.00-18.10  Anterior sacral meningocele in children – diagnostic and therapeutic strategies  
Mirjana Raicevic, Serbia  

18.10-18.20  Does transvers diametere of the cervical spinal canal play a role on csm development?  
Murat Sayin, Turkey  

18.20-18.30  Degenerative lumbar spine  
Vesna Nikolov, Serbia  

18.30-18.50  Discussion  

08.00 -19.00  E-POSTER PRESENTATION  
Area for Poster presentation  

20.00-00.00  Gala dinner
MAIN SCIENTIFIC SESSION 3: SPINE TRAUMA AND INFECTIONS  
Moderators: Vadim Manukovsky, Ljubodrag Minic, Fatos Ollidashi  

HALL 2  

12.00-12.15  
KEY NOTE LECTURE  
Chronic Spondylitis: Current Concept  
Alexander Mushkin, Russia  

12.15-12.30  
KEY NOTE LECTURE  
Modification of Short-segment Fixation with Pedicle Screws in Fracture Site without Fusion for Thoracolumbar Fractures  
Vladimir Lalosevic, Serbia  

12.30-12.45  
MIS Instrumentation in Trauma  
Nikolay Gabrovsky, Bulgaria  

12.45-13.00  
Early Surgery and Instrumentation in Cervical Spine Tuberculosis - Tuberculosis of cervical spine. Rationale and decision making  
Harjinder Bhatoe, India  

13.00-13.15  
Central Cord Syndrome - Surgical Treatment Nuances  
Nenad Novakovic, Serbia  

13.15 – 13.30  
Adverse effects of steroid therapy in acute spinal cord injury management  
Victor Rerikh, Russia  

13.30-14.15  
Lunch  

MAIN SCIENTIFIC SESSION 4: BASIC SCIENCE AND SPINE TUMORS  
Moderators: Sergey Kolesov, Andreas Demetriades, Stefano Ferraresi  

HALL 2  

14.15-14.30  
KEY NOTE LECTURE  
Treatment of Chronic Pain After Transpedicular Fixation  
Tito Perilla, Colombia  

14.30-14.45  
KEY NOTE LECTURE  
Complications in Spine Surgery  
Keki Turel, India  

14.45-15.00  
Spine and Spinal Cord Disorders: Advanced Treatment Concept  
Dmitry Asyutin, Russia  

15.00-15.15  
Endovascular Treatment of Spinal AVMs and Vascular Tumors  
Teodor Tissen, Russia  

15.15-15.30  
Radiosurgery For Spinal Metastasis  
Selçuk Peker, Turkey  

15.30-15.45  
Neuromodulation is the Main Way of Treatment of Failed Back Surgery Syndrome (FBSS)  
Emil Isagulyan, Russia  

15.45-16.00  
Intraoperative Neurophysiological Monitoring for Spinal Cord Tumors Surgery  
Slavko Djuraskovic, Montenegro  

16.00-16.15  
Results of Surgical Treatment of Spinal Cavernous Malformations  
Bahramkhon Zakirov, Russia  

16.15-16.30  
Spinal Cord Tumors in Montenegro  
Novak Lakicevic, Montenegro
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<td><strong>ORAL PRESENTATIONS 2</strong></td>
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<td>Moderators: Sergey Mlyavykh, Novak Lakicevic, Venko Filipce</td>
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<td>17.00-17.10</td>
<td>Cervical Spinal Stenosis treatment by Interlaminar full Endoscopy</td>
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<td>Marcio Cunha Ramalho, Brazil</td>
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<td>17.10-17.20</td>
<td>Severity of the Spinal Stenosis - a Novel Classification method</td>
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<td>Milenko Stanic, Serbia</td>
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<td>Economic costs in Discitis Treatment</td>
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<td>Mustafa Ogden, Turkey</td>
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<td>17.30-17.40</td>
<td>Transcorporeal anterior cervical microforaminotomy; a motion preserving surgery in pure brachialgia</td>
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<td>Moshiur Rahman, Bangladesh</td>
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<td>17.40-17.50</td>
<td>Role of the O-arm and neuronavigation in the management of complex spine surgery cases</td>
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<td>Cervical Spondylotic Myelopathy</td>
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<td>Drazen Ivetic, Serbia</td>
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<td>Use of nitiinol rods for fixation of the lumbar spine (prospective multi-center study)</td>
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<td>Kazmin Arkadii, Russia</td>
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<td>Intraoperative neurophysiological monitoring during anterior cervical discectomy and fusion</td>
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<td>18.20-18.30</td>
<td>The role of endoscopy in treating spinal stenosis</td>
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<td>Miljan Mihajlović, Serbia</td>
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**Saturday, 6th October 2018**

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<td>08.00-08.20</td>
<td>Adult Scoliosis and Complication Management</td>
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<td>Jesus Lafuente, Spain</td>
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<td>08.20-08.40</td>
<td>Microsurgical Education Today and the Role of Neurosurgical Organizations</td>
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<td>Torstein Meling, Norway</td>
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<td>08.40-09.00</td>
<td>From Simulation Through Cadaver Training to Patient Care: A Safe Way to Educate Spinal Surgeons</td>
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<td>Karl Schaller, Switzerland</td>
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<td>09.00-09.20</td>
<td>Surgical Treatment of Cervical Spine Trauma</td>
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<td>Vadim Manukovsky, Russia</td>
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<td>09.20-09.40</td>
<td>Occipito-Cervical Fixation: Evolution and Current Concepts</td>
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<td>Miguel Arraez Sanchez, Spain</td>
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<td>09.40-10.10</td>
<td>Low-Grade Infection in Spinal Instrumentation: Is this the Real Cause of Screw Loosening?</td>
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<td>Bernhard Meyer, Germany</td>
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<td>10.30-10.45</td>
<td>KEY NOTE LECTURE</td>
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<td>Image Guidance for Cervical Spine Surgery. Is There an Added Value?</td>
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<td>Experience of 170 Cases</td>
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<td>John Duff, Switzerland</td>
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<td>10.45-11.00</td>
<td>KEY NOTE LECTURE</td>
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<td>New Technologies for the Treatment of Degenerative Scoliosis</td>
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<td>Sergey Kolesov, Russia</td>
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<td>11.00-11.15</td>
<td>Adverse Events Related to Peripheral Nerves Following Spine Surgery-Complications, Sequelae, Mistreatment: Avoidance, Treatment Modalities and Outcome</td>
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<td>Lukas Rasulic, Serbia</td>
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<td>11.15-11.30</td>
<td>Cervical Arthroplasty With Discover; Long Term Results and Influence on the Cervical Biomechanics</td>
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<td>Miroslav Vukic, Croatia</td>
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</table>
11.30-11.45  Spinal Navigation: Past, Present and Future  
Francesco Costa, Italy

11.45-12.00  MISS (Minimally invasive Spinal Surgery, the Concept. MISS is not a Miss-surgery) - 
Nikolay Peev, Ireland

12.00-12.15  A Neuro-fuzzy Model for Supporting the Diagnosis of Lumbar Disc Herniation  
Miodrag Peulic, Serbia

12.15-12.30  CT Scan and Navigation Assisted Spinal Surgery  
Maria Martynova, Russia

12.30-12.45  Discussion

12.45-13.30  Lunch

12.45-13.30  SEENS EC Business Meeting - Board Room

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**MAIN SCIENTIFIC SESSION 6: SPINE TRAUMA**  
**Moderators: Torstein Meling, Aleksandr Mushkin, Nebojsa Stojanovic**

**HALL 1**

13.30-13.45  KEY NOTE LECTURE  
Management of Fractures in Ankylosing Spondylitis  
Mehmet Zileli, Turkey

13.45-14.00  KEY NOTE LECTURE  
First Experiences with a Dedicated Hybrid OR for Spine Surgery  
Amir Samii, Germany

14.00-14.15  CSF Leakage Following Spine Surgery: Prevention and Management  
İhsan Solaroğlu, Turkey

14.15-14.30  War Injuries of the Spinal Cord  
Ljubodrag Minic, Serbia

14.30-14.45  Cervical Spine Fracture  
Fatos Olldashi, Albania

14.45-15.00  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

15.00-15.15  Central Cord Syndrome  
Panagiotis Selviaridis, Greece

15.15-15.30  Spine Injuries and Disorders - Emergency Centre as a Crossroad for Right Treatment  
Miljan Jovic, Serbia

15.30-15.45  Discussion

15.45-16.00  Coffee break
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<th>Time</th>
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</table>
| 16.00-16.15  | **KEY NOTE LECTURE** Surgical Management of Intradural tumors at the Craniovertebral Junction Region  
Ioan Stefan Florian, Romania                                                                 |
| 16.15-16.30  | **KEY NOTE LECTURE** Surgery Around the Neuroforamen. Indications and Technique for Dumbbell Pathology in the Cervical Area  
Stefano Ferraresi, Italy                                                                 |
| 16.30-16.45  | **TBA**  
Mohamed Al Olama, UAE                                                                                                                        |
| 16.45-17.00  | **Results of surgical treatment of extramedullary spinal cord tumors**  
Onoprienko Roman, Russia                                                                                                                    |
| 17.00-17.15  | **Intradural Spinal Tumors: Surgical Considerations and Institutional Experience**  
Tomislav Sajko, Croatia                                                                                                                     |
| 17.15-17.30  | **Intradural Spine Tumor Surgery**  
Vincenzo Paterno, Germany                                                                                                                     |
| 17.30-17.45  | **Spinal Schwannomatosis – A Case Report**  
Martin Smrcka, Czech Republic                                                                                                                 |
| 17.45-18.00  | **Spinal Tumours Treatment-Our Experience**  
Rasim Skomorac, Bosnia and Herzegovina                                                                                                           |
| 18.00-18.15  | **Intradural Spine Tumor Surgery-Institutional Experience**  
Djula Djilvesi, Serbia                                                                                                                       |
| 18.15-18.30  | **Discussion**                                                                                                                              |

**ORAL PRESENTATIONS 3**  
Moderators: Alexander Gubin, Evgeny Brinyuk, Djula Djilvesi

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<td>20.30-00.00</td>
<td><strong>Serbian Traditional Dinner</strong></td>
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MAIN SCIENTIFIC SESSION 8: MINIMAL INVASIVE SPINE SURGERY
Moderators: Sergey Mlyavykh, Marko Markovic, Roman Bosnjak

HALL 2

10.30-10.45  KEY NOTE LECTURE
Endoscopic approaches in lumbar degenerative diseases
Enrique Osorio-Fonseca, Colombia

10.45-11.00  KEY NOTE LECTURE
The Use of Minimally Invasive Techniques for Segmental Correction
Alexander Krutko, Russia

11.00-11.15  Percutaneous Endoscopic Transforaminal Approach for Foraminal and Extraforaminal Disc Herniations: 5-Year Experience
Natale Francaviglia, Italy

Vasily Korolishin, Russia

11.30-11.45  Lumbar Angiolipoma Removal via Percutaneous Endoscopic Interlaminar Approach
Marcio Ramalho da Cunha, Brasil

11.45-12.00  Extent of surgical resection of malignant astrocytomas of the spinal cord
Venelin Gerganov

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 Kapirovy, Russia

12.30-12.45  Discussion

12.45-13.30  Lunch

12.45-13.30  SEENS EC Business Meeting - Board Room
13.30-13.45  **KEY NOTE LECTURE**  
Lumbar Disc Herniation: Is Microsurgery Exceeded?  
Alberto Delitala, Italy

13.45-14.00  **KEY NOTE LECTURE**  
Degenerative Low and High Grade Spondylolisthesis  
Andreas Demetriades, UK

14.00-14.15  Lumbar Spine Instrumentation  
Milos Jokovic, Serbia

14.15-14.30  **Different Microsurgical Non-fusion Techniques for Cervical Radiculopathy**  
Yury Shulev, Russia

14.30-14.45  Anterior Cervical Corpectomy in the Treatment of Degenerative and Tumorous Processes of the Cervical Spine  
Mitja Benedicic, Slovenia

14.45-15.00  Anterior Cervical Approach for the Treatment of Cervical Myelopathy  
Danilo Radulovic, Serbia

15.00-15.15  Biological nucleoplasty - emerging treatment  
Vladimir Papic, Serbia

15.15-15.30  **Unilateral Recurrent Lumboishialgia of Unknown Cause – A Diagnostic and Therapeutic Challenge**  
Ivan Stefanovic, Serbia

15.30-15.45  **Discussion**

15.45-16.00  **Coffee break**

**MAIN SCIENTIFIC SESSION 9: DEGENERATIVE SPINE**  
*Moderators: Kenan Arnautovic, Dmitry Dzukaev, Yavor Enchev*
16.00-16.15 KEY NOTE LECTURE
Minimal Invasive Surgery in Spine Trauma
Tiberiu Maior, Romania

16.15-16.30 KEY NOTE LECTURE
Sagittal Balance in Spinal Neurosurgery
Evgeny Brinyuk, Russia

16.30-16.45 The treatment of degenerative diseases of vertebral column
Branko Djurovic, Serbia

16.45-17.00 Corner osteotomy for treatment of fixed sagittal malalignment following previous spinal fusion; case series
Rok Vengust, Slovenia

17.00-17.15 Comparative Analysis of Surgical Treatment of Patients with Congenital Thoracic Spine Deformities Using Thoracic Expansion Devices and Spinal Correction and Fusion
Sergey Vissarionov, Russia

17.15-17.30 Segmental Stabilisation of Pathologic Fractures of Thoracolumbar Spine
Stanko Milickovic, Serbia

17.30-17.45 Surgical Management of Adult Spine Deformities
Alexander Kravchuk, Russia

17.45-18.00 Modern Treatment Options for Degenerative Scoliosis
Goran Pavlicevic, Serbia

18.00-18.15 Our Experience in Treatment of Single Level Cervical Degenerative Disc Disease with ACDFP
Aleksandar Chaparoski, Macedonia

18.15-18.30 Discussion

E-POSTER EVALUATION AND DISCUSSION SESSION
Moderators: Martin Smrcka, Anton Nazarenko, Vladimir Papic

18.30-19.30

08.00-19.20 E-POSTER PRESENTATION
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20.30-00.00 Serbian Traditional Dinner
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<tr>
<td>08.00</td>
<td><strong>Outpatient Cervical Spine Surgery</strong></td>
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<td>Eirik Helseth, Norway</td>
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<td>08.20</td>
<td><strong>The videoendoscopic techniques in the surgical treatment of patients with thoracolumbar trauma</strong></td>
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<td>Andrey Grin, Russia</td>
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<td>08.40</td>
<td><strong>Current Concept in Minimal Invasive Spine Surgery</strong></td>
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<td>Kresimir Rotim, Croatia</td>
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<td>09.00</td>
<td><strong>The correction of degenerative scoliosis of adults with the use of minimally invasive technologies (LLIF, ALIF, MIS posterior fixation)</strong></td>
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<td>Vladimir Klimov, Russia</td>
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<td>09.20</td>
<td><strong>Surgical Management of the Vascular Malformations of the Spinal Cord</strong></td>
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<td>Marcel Ivanov, UK</td>
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<td><strong>Multilevel VCR in the Treatment of Complex Spinal Deformities in Adults</strong></td>
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<td>Dmitry Ptashnikov, Russia</td>
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<td><strong>SNSS Tribute: Professor MADJID SAMII LECTURE 2</strong></td>
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<td>Surgical Treatment of Intramedullary Tumors: Experience of More than 700 Cases</td>
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<td>Nikolay Konovalov, Russia</td>
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<td>10.30</td>
<td><strong>INTRO Lukas Rasulic</strong></td>
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<td>10.30-10.45</td>
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MAIN SCIENTIFIC SESSION 11: MINIMAL INVASIVE SPINE SURGERY
Moderators: Jesus Lafuente, Eirik Helseth, Alexander Krutko

HALL 1

10.45-11.00 KEY NOTE LECTURE
Evolution of Minimally-Invasive Techniques in Instrumented Thoraco-lumbar Surgery: Our Experience
Roberto Delfini, Italy

11.00-11.15 KEY NOTE LECTURE
Role of Minimal Invasive Techniques and New Classification System in the Surgical Treatment of Pathologies Situated in the Spinal Canal
Peter Banczerowski, Hungary

11.15-11.30 Do Obese Patients Benefit from Minimally Invasive Lumbar Fusion Techniques?
Wolfgang Senker, Austria

11.30-11.45 MIS Techniques in Our Adult Deformity Practice: Real Opportunities and Pitfalls
Sergey Mlyavykh, Russia

11.45-12.00 Concept of Full-Endoscopic Surgery of the Lumbar Spine
Marko Markovic, Serbia

12.00-12.15 Transforaminal Endoscopic Discectomy - Why This is the Best Surgery What We Can Offer to Our Patients
Robert Saftic, Croatia

12.15-12.30 Endoscopic-assisted Fenestration and Discectomy in Lumbar Disc Hernia Using EasyGo
Roman Bosnjak, Slovenia

12.30-12.45 Percutaneous Minimally Invasive Procedures for Osteoporotic Vertebral Compression Fractures – Current Concepts
Yavor Enchev, Bulgaria

12.45-12.55 Discussion
YOUNG NEUROSURGEONS FORUM - SNSS & SEENS AWARD SESSION
Moderators: Djula Djilvesi, Ibrahim Omerhodzic, Ivan Stefanovic, Ljubodrag Minic, Tomislav Sajko

HALL 1

13.10-13.08  Microsurgical Discectomy – Discectomy or Segmental Decompression, a Technical Approach
             Igor Popovic, Serbia

13.08-13.16  Spinal Stenosis Patophysiology – Histological Analysis of the Ligamentum Flavum
             Vuk Aleksic, Serbia

13.16-13.24  Stenosis Versus Ischemia of the Spinal Canal – Contact Endoscopy
             Blood Flow Patterns
             Nenad Zivkovic, Serbia

13.24-13.32  Ataxia of the Legs – Lumbar Spinal Stenosis vs. Alzheimer Disease
             Marko Samardzic, Serbia

13.32-14.20  TBA

14.20-15.00  CLOSING CEREMONY
             YOUNG NEUROSURGEONS AWARD
             BEST ORAL PRESENTATION AND E-POSTER AWARDS
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| 10.45-11.00| **KEY NOTE LECTURE**  
  The Cervical Spine Congenital and Genetic Abnormalities and Deformities  
  Alexander Gubin, 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, Croatia |
| 11.45-12.00| Cervical-thoracic Spinal Reconstruction  
  Alexander Mushkin, 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| 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 |
| 12.45-12.55| Discussion |
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Registration is mandatory for all categories

**Congress fee:**

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**REGISTRATION FEES INCLUDES:**

- Full access to all scientific programmes for all 3 days of the conference.

**REGISTRATION CANCELLATION TERMS**

- Requests for registration cancellation must be submitted in writing to the Congress Secretariat at spineserbia2018@snss.org.rs
- For cancellations received until August 15th 2018 refund of registration fees will be 100%.
- For cancellations received until September 1st 2018 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 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
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 online on the website 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 uploaded 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.
Thursday, October 4th, 2018
Welcome faculty reception / by invitation
Venue: Hotel “Tami Residence”, Nis, Serbia
20.00 - 22.00

Friday, October 5th, 2018
Gala Dinner
Venue: Officers Club, Nis, Serbia
20.00 - 00.00
Dress code: Black tie.

Saturday, October 6th, 2018
Traditional Serbian Dinner
Venue: Restaurant “Stara Srbija”, Nis, Serbia
20.30 - 01.00
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.

GPS Coordinates
43°18'23.4"N
21°53'13.3"E

VENUE:
Tami Residence Hotel****
Niš, Serbia

www.tamiresidence.com
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.

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 Karadorda 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 Niš, please see recommendation of the Tourism Organization of Niš at http://www.visitnis.com/hotels.html.
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, Niš...). 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).

Niš 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.
DIRECT FLIGHTS TO / FROM NIŠ

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

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

**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:

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