

DKOU2016

German Congress of Orthopaedics and Traumatology

Berlin 25 - 28 October
International Programme



**BACK
TO THE
FUTURE**



102nd Meeting of the German Society for Orthopaedics and Orthopaedic Surgery



DGOC President

Prof. Dr. med. Heiko Reichel

Orthopädische Universitätsklinik Ulm am RKU

Administration Office

Straße des 17. Juni 106 - 108, 10623 Berlin, Germany

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80th Annual Meeting of the German Trauma Society



DGU President

Prof. Dr. med. Florian Gebhard

Universitätsklinikum Ulm, Klinik für Unfall-, Hand-, Plastische und Wiederherstellungschirurgie

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57th Meeting of the Professional Association of Orthopaedics and Orthopaedic Surgeons



BVOU Congress President

Dr. med. Manfred Neubert

Sonneberger Orthopädiezentrum Bremen

Administration Office

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bvou@bvou.net, www.bvou.net

Guest Nations



Israel

■ IOA - Israeli Orthopaedic Association

www.israel-ortho.org.il

Switzerland

■ SGACT - Schweizerische Gesellschaft für Allgemein-chirurgie und Traumatologie, www.sgact.ch

■ Swiss Orthopaedics, www.swissorthopaedics.ch

Fiscal Organiser, Congress & Exhibition Management



Intercongress GmbH

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**"The good old days" vs. "tomorrow, everything will be perfect".
These figures of speech often accompany us.**

It's a fact that orthopaedic and orthopaedic trauma surgery have a long lasting tradition in German-spoken countries. More than 100 years ago the basic foundation for conservative fracture management was laid here. Over 50 years ago the principles of modern operative fracture care, osteotomies and joint replacement were also invented in this part of the world. More recent developments like ultrasound screening of the neonatal hip, the concept of femoroacetabular impingement, or concepts for trauma care in multiple injured patients have influenced our way of thinking and are now part of our tradition.

Apart from that, orthopaedic surgery is increasingly characterized through high tech and innovations. Computer assisted surgery and pre-op planning contributed significantly to our field. There are constant advances of technically-assisted, minimally-invasive procedures. When attending the sessions or the industrial exhibitions of this meeting, one can get a good impression of how dynamic this process really is. The scientific topics of this meeting reflect the broadness of our fascinating field and represent today's state of knowledge.

The dichotomy of tradition vs. modern trends – looking back and ahead – is part of our daily practice. Our actions are determined by the balance of dependable standards and an open mind towards new technologies. This challenge is reflected in this meeting's motto – **"Back to the future"**.

Past and Future – these terms fit a lot of different countries. They are particularly underlined by our two guest nations, **Israel and Switzerland**.

Besides the scientific topics, there are many other problems that our colleagues in the hospital or in private practice have to deal with. Work environment, compatibility of family and work, questions concerning training and specialization or simply medical billing. These subjects and many more are also represented in our programme.

You are all invited to actively participate in our discussion forums. We already want to draw your attention to the **"German Congress of Orthopaedics and Traumatology" (DKOU)** in October. We are looking forward to debate with you about the past, present and future of orthopaedic and trauma surgery.


Prof. Dr. H. Reichel
President DGOOC 2016


Prof. Dr. F. Gebhard
President DGU 2016


Dr. M. Neubert
Congress President BVOU 2016

CME credits: The DKOU will be submitted for accreditation to the UEMS (European Union of Medical Specialists) for EACCME.

09:00 - 10:30	New York 1	International: in English
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IN11 Ligament injuries in sports

In cooperation with ESMA



Organisation Felmet G. (Villingen-Schwenningen)
Chair Canata G. (Torino), Mayr H. (München)

2740 Causes of sports injuries
 9'+4' *Herbort M. (Münster)*

2741 General prevention principles of overload damage in sports
 9'+4' *Canata G. (Torino)*

2742 Special aspects of prevention in children
 9'+4' *Seil R. (Luxemburg)*

2743 Specific aspects of triathlon
 9'+4' *Engelhardt M. (Osnabrück)*

2744 Specific aspects of handball
 9'+4' *Laver L. (Tel-Aviv)*

2745 Specific aspects of alpine skiing
 9'+4' *Mayr H. (München)*

2746 Summary and prospect
 12' *Felmet G. (Villingen-Schwenningen)*

09:00 - 10:30	New York 3	International: in English
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IN39 Multiple trauma care - between challenge and reality

Sektion Notfall- und Intensivmedizin, Schwerverletzten-
 versorgung (DGU)

Organisation Flohé S. (Solingen)
Chair Matthes G. (Berlin), Paffrath T. (Köln)

2881 Do we still need conventional radiography in the trauma room?
 Introduction to pro-contra debate
 3'+2' *Trentzsch H. (München)*

2882 Conventional radiography in the trauma room is still necessary
 10'+5' *Kanz K. (München)*

- 2883 A CT-scanner in or close to the trauma room is perfect
10'+5' *Huber-Wagner S. (München)*
- 2884 Delayed diagnosis/missed injuries in severely injured patients
10'+5' *Gümbel D. (Greifswald)*
- 2885 Trauma room admittance = whole body CT? Do we have valid indications for CT scanning in severely injured patients?
10'+5' *Franke A. (Koblenz)*
- 2886 Non vitamin K antagonist oral anticoagulants – management in the trauma room
10'+5' *Waydhas C. (Bochum)*
- 2887 Tranexamic acid in a prehospital setting
8'+2' *N.N.*

11:00 - 12:30	Paris 1	Section, Work Group
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SK32 Orthopedis and Traumatology in disaster areas and in times of global flows of refugees – quo vadis?
AGOUE - AG Ortho/Unfall in Entwicklungsländern (DGOU)

Organisation Oberst M. (Aalen)
Chair Helmers Anja (Berlin), Kinzl L. (Ulm)

- 2432 Orthopedics and traumatology in disaster areas – what kind of surgeon can we offer?
15'+5' *Friemert B. (Ulm)*
- 2550 Corruption in economic cooperation and development assistance (Transparency International)
8'+2' *Conze P. (Berlin)*
- 2430 Quo vadis? The political point of view
15'+5' *Fuchtel H. (Berlin)*
- 2431 Quo vadis? An NGO's point of view
15'+5' *Osmers Inga (Berlin)*
- 2549 Quality of care in disasters matters; orthopedic and wound injury care guidance for first responders (WHO)
15'+5' *Norton I. (Genf)*

11:00 - 12:30

New York 1

International: in English

IN12 Sports orthopaedics and traumatology

Chair Elke R. (Basel), Wurnig C. (Wien)
Moderation Stöckl B. (Klagenfurt a.W.)

- 818 Femoral condyle configuration influences anterior cruciate ligament reconstruction
6'+3' *Bischofberger S. (Köln), Riemer Lena, Schäferhoff P., Dewitz H., Steimel T., Reineck S., Dargel J.*
- 703 Biomechanical analysis of function and strain of the anterolateral ligament
6'+3' *Drewe B. (Ulm), Kessler O., Franz W., Freutel Maren, Dürselen L.*
- 196 A novel implant-free femoral pull-press-fixation for ACL reconstruction
6'+3' *Kwisda S. (Hannover), Dratzidis A., Omar M.*
- 1354 Mid-substance ACL tears - is there space for ligament preserving surgery?
6'+3' *Ahmad S. (Bern), Krismer Anna, Kohl S.*
- 252 Stability of the knee joint after dynamic intraligamentary stabilization
6'+3' *Gueorguiev B. (Davos), Henle P., Zderic I., Acklin Y., Häberli J.*
- 627 A comparison of the anteromedial and transtibial anterior cruciate ligament reconstruction using expandable fixation
6'+3' *Ozel O. (Istanbul), Yucel B., Orman O., Demircay E., Mutlu S.*
- 840 Tibia plateau fractures in winter sports. Fracture patterns and CT evaluation - creation of a frequency map to determine location and degree of damage to the joint surface
6'+3' *Tryzna M. (Visp), Gebel P., Sramek D., Wildhelm B., Beck T.*
- 1533 Clinical results and concepts of distal tibial oblique osteotomy joint preservation surgery for osteoarthritis & post-trauma of the ankle joint
6'+3' *Takenaka N. (Koriyama), Teramoto T., Katoh N., Takaki M., Harada S., Asahara T., Watanabe Y., Matsushita T.*
- 807 Fracture dislocation of the distal elbow. Is the terrible tetrad a new entity?
6'+3' *Caviglia H. (CABA), Alvarez R., Blanchetiere H., Cuestas N., Gomez Avellaneda Ivonne, Vergara M., del Soldato G., Pemoff Adriana*
- 2064 Summary
3' *Stöckl B. (Klagenfurt a.W.)*

11:00 - 12:30

New York 3

International: in English

IN15 Current concepts in ankle arthritis

DAF - Sektion Deutsche Assoziation für Fuß und Sprunggelenk (DGOU)

Organisation
Chair

Dohle J. (Wuppertal)
Haze A. (Jerusalem), Stukenborg-Colsman Christina (Hannover)

2165 Etiology, diagnostics and non-operative treatment of ankle arthritis
7'+5' *Dohle J. (Wuppertal)*

2166 Osteochondral lesions of the talus – current concepts
7'+5' *Waizy H. (Augsburg)*

2167 Ankle fractures – how to avoid posttraumatic ankle arthritis?
7'+5' *N.N.*

2168 Chronic ankle instability – which procedure for which patient?
7'+5' *Plaass C. (Hannover)*

2169 Joint preserving corrective osteotomies – a true alternative?
7'+5' *Krause F. (Bern)*

2170 Ankle fusion – still golden standard for advanced ankle arthritis?
7'+5' *Haze A. (Jerusalem)*

2171 Total ankle replacement – what can patients and physicians expect?
7'+5' *Preis M. (Wiesbaden)*

11:00 - 12:30

Berlin 2

Basic Research

GR12 Travel Award ORS

In cooperation with ORS



Chair
Moderation

Andriacchi T. (Stanford, CA), Hurschler C. (Hannover)
Blunk T. (Würzburg)

2003 ORS KEYNOTE: Joint physiology & mechanics: implications for
osteoarthritis
15'+3' *Andriacchi T. (Stanford, CA)*

1513 Role of a microporosity on bone integration
8'+3' *Bernstein Anke (Freiburg), Böhner M., Südkamp N., Mayr H.*

853 Analysis of endothelial and thrombocytic microparticles after severe
trauma
8'+3' *Fröhlich M. (Köln), Schäfer Nadine, Caspers M., Böhm Julia K.,
Bouillon B., Stürmer Ewa K., Maegele M.*

- 292 First results of a porcine long-term model of combined trauma
8'+3' Horst K. (Aachen), Simon T., Marzi I., van Griensven M., Huber-Lang M., Marx G., Pape H., Hildebrand F.
- 951 Strontium enhances BMP-2 mediated bone regeneration in a femoral murine bone defect model
8'+3' Zwingenberger S. (Dresden), Schlootz Saskia, Quade Mandy, Stiehler M., Günther K., Schaser K., Goodman S., Gelinsky M.
- 1425 Neutrophil Extracellular Traps (NETs) mediate activation of macrophages during particle-induced osteolysis
8'+3' Landgraeber S. (Essen), Jäger M., Gunzer M., Hasenberg M.
- 201 Femoral interference screw fixation of hamstring and quadriceps tendons for ACL reconstruction
8'+3' Petri M. (Hannover), Werner-Lebeda Tina, Calließ T., Omar M., Becher C., Ezechieli M., Klintschar M., Ettinger M.
- 2065 Summary
3' Blunk T. (Würzburg)

14:30 - 16:00

New York 1

International: in English

IN13 Acute cartilage injury

In cooperation with AO Foundation, ARI, ORS



Organisation
Chair

Alini M. (Davos)
Brenner R. (Ulm), Südkamp N. (Freiburg)

2625 Introduction
10' Alini M. (Davos)

2626 Biomaterials for cartilage regeneration
15'+5' Eglin D. (Davos)

2627 Gene therapy approaches for cartilage repair
15'+5' Cucchiari Madry Magali (Homburg)

2628 Influence of mechanical environments on chondrogenesis
15'+5' Stoddart M. (Davos)

2629 Translationally relevant animal models of cartilage repair
15'+5' Dodge G. (Philadelphia)

14:30 - 16:00

New York 3

International: in English

IN16 Treatment standards in spine surgery – the German perspective
Sektion Wirbelsäule (DGOU)

Organisation Chair Kandziora F. (Frankfurt)
Korge A. (München), Kothe R. (Hamburg)

2265 Injuries of the subaxial cervical spine
12'+6' Schleicher P. (Frankfurt)

2266 Osteoporotic fractures of the spine
12'+6' Schnake K. (Fürth)

2267 Idiopathic scoliosis
12'+6' Liljenqvist U. (Münster)

2268 Lumbar spinal canal stenosis and degenerative spondylolisthesis
12'+6' Schulte T. (Münster)

2269 Spondylitis and spondylodiscitis
12'+6' Bullmann Viola (Köln)

16:30 - 18:00

New York 1

International: in English

IN14 Current concepts in rotator cuff repair
DVSE - Sektion Deutsche Vereinigung für Schulter- und Ellenbogen-
chirurgie (DGOU); certification DVSE requested

Organisation Chair Weinhart H. (Starnberg)
Scheibel M. (Berlin)

2970 Rotator cuff tears: which need surgery, which don't?
10'+4' Jost B. (St. Gallen)

2971 Anchor reconstruction, knot – knotless – all suture: the best choice?
10'+4' Liem D. (Münster)

2972 How to handle the PASTA lesion
10'+4' N.N.

2973 Subscapularis tears: how to repair
10'+4' Imhoff A. (München)

2974 Management of stiff shoulder and cuff tear
10'+4' *N.N.*

2975 Inspace-balloon – an option for massive rotator cuff tears?
10'+4' *Dekel A. (Tel Aviv)*

16:30 – 18:00 New York 3 International: in English

IN17 DDH - conservative and operative treatment VKO - Sektion Vereinigung Kinderorthopädie (DGOU)

Organisation Wirth T. (Stuttgart)
Chair Bar-On E. (Petah Tikva), Katthagen B. (Dortmund)

2279 Genetic, epidemiological and cultural aspects of DDH: implications for
screening and early diagnosis
8'+2' *Bar-On E. (Petah Tikva)*

2280 To treat or not to treat? The mildly dysplastic Type IIa hip at age 6 weeks
8'+2' *Westhoff Bettina (Düsseldorf)*

2281 Complications of conservative DDH treatment: early versus late
beginning of treatment
8'+2' *Eberhardt O. (Stuttgart)*

2282 Arguments for early acetabuloplasty in DDH cases with persisting
dysplasia after discontinuation of conservative treatment
8'+2' *Katthagen B. (Dortmund)*

2283 Arguments for a delayed and individualized indication for acetabulo-
plasty in persisting acetabular dysplasia
8'+2' *Wirth T. (Stuttgart)*

2284 The "quiet phase" of DDH in the age between age six and puberty:
which cases need operative intervention?
8'+2' *Krauspe R. (Düsseldorf)*

2285 Impingement and DDH: what and how to treat?
8'+2' *Günther K. (Dresden)*

2286 Long-term results of redirectional pelvic osteotomies for adolescent
hip dysplasia
8'+2' *Siebenrock K. (Bern)*

GR14 Stem cells and tissue repair

In cooperation with ORS

**Chair
Moderation**

Grad Sibylle (Davos), Richter Wiltrud (Heidelberg)
Müller P. (München)

- 2001** ORS KEYNOTE: Stem cells for intervertebral disc regeneration: success and hurdles
Grad Sibylle (Davos)
- 512** G-CSF induced mobilization of CD34+ progenitor cells promotes healing of critical size bone defects
6'+3' Herrmann Marietta (Davos Platz), Stadelmann V., Zeiter S., Eberli Ursula, Hildebrand Maria, Menzel Ursula, Alini M., Verrier Sophie
- 1045** CD31(+) cells from peripheral blood: a bonanza for bone regeneration
6'+3' Sass Andrea (Berlin), Filter S., Rose A., Ellinghaus Agnes, Schmidt-Bleek Katharina, Preininger B., Duda G., Dienelt Anke
- 1193** Intramedullary Mg2Ag nails augment callus formation during fracture healing in mice
6'+3' Saito H. (Hamburg), Jähn Katharina, Taipaleenmäki Hanna, Hort N., Feyerabend F., Lehmann W., Willumeit-Römer Regine, Hesse E.
- 72** In vitro and in vivo study of DBM enriched with BMP2: burst release combined with long term binding
6'+3' Huber Elisabeth (Berlin), Pobloth Anne-Marie, Bormann Nicole, Kolarczik N., Schmidt-Bleek Katharina, Schwabe P., Duda G., Wildemann Britt
- 62** Leukocyte-reduced platelet-rich plasma stimulates the in vitro proliferation of adipose-tissue derived mesenchymal stem cells depending on PDGF signaling in a time dependent manner
6'+3' Lang S. (Regensburg), Hanke A., Herrmann Marietta, Nerlich M., Angele P., Prantl L., Gehmert S., Loibl M.
- 84** rAAV-mediated sox9 overexpression induces chondrogenesis in human bone marrow aspirates seeded in woven poly(ε-caprolactone) scaffolds
6'+3' Venkatesan J. (Homburg), Moutos F., Rey-Rico Ana, Frisch Janina, Schmitt Gertrud, Guilak F., Madry H., Cucchiariini Madry Magali
- 655** Form follows function: high resolution insight into the tendon-bone insertion
6'+3' Kuntz Lara (München), Rossetti L., Kunold Elena, Schock J., Stolberg-Stolberg J., von Eisenhart-Rothe R., Bausch A., Burkart R.
- 2061** Summary
3' Müller P. (München)

09:00 - 10:30

New York 1

International: in English

IN18 Non-weight bearing after fracture care: where is the evidence?

In cooperation with AOTrauma



Organisation Brink P. (Maastricht)
Chair Bonnaire F. (Dresden), Winker H. (Erfurt)

2758 Introduction
15' Brink P. (Maastricht)

2759 Biomechanics during loading
15' Duda G. (Berlin)

2760 Non-weight bearing after cartilage repair: where is the evidence?
15' Madry H. (Homburg)

2761 Early weight bearing after fixed ankle fractures
15' Verleisdonk E. (Utrecht)

2762 Forum discussion
30' Bonnaire F. (Dresden), Winker H. (Erfurt)

09:00 - 10:30

New York 3

International: in English



IN22 Israeli innovations in musculo-skeletal trauma

In cooperation with IOA



Organisation Liebergall M. (Jerusalem)
Chair Mosheiff R. (Jerusalem), Richter P. (Ulm)

2679 Skeletal tissues regeneration using the recombinant human amelogenin
8'+4' Haze A. (Jerusalem), Blumenfeld A., Deutsch D., Liebergall M.

2680 A novel biomechanical treatment for various lower limb and back
pathologies
8'+4' Lubovsky O. (Ashkelon)

2681 Robotic guided spine surgery, beyond screw guidance
8'+4' Schroeder J. (Jerusalem), Kaplan L., Barzilay Y.

2682 Setting new milestone in orthopedic fracture care – carbon fiber
implants
8'+4' Steinberg E. (Tel Aviv)

- 2683 Pre-operative planning – innovation in practice
8'+4' *Norman D. (Jerusalem)*
- 2684 Spacer implantation - a new approach to patients with massive rotator cuff tears
8'+4' *Dekel A. (Tel Aviv), Maman E.*
- 2685 The third dimension: guiding rotational growth
8'+4' *Bar-On E. (Petah Tikva), Arami A., Heller S.*

11:00 - 12:30 **New York 1** **International: in English**

IN19 Smart surgery
In cooperation with AO Foundation, ARI



Organisation Richards G. (Davos Platz)
Chair Dürselen L. (Ulm)

- 2766 Smart positioning: X-in-One – AO implant positioning assistant
14' *Windolf M. (Davos)*
- 2767 Smartfix – monitoring external fixation
14' *Ernst Manuela (Davos)*
- 2768 Smart plates: AO fracture monitor
14' *Windolf M. (Davos)*
- 2769 Smart drilling: AO auto-gauge
14' *Varga P. (Davos)*
- 2770 Smart implant optimisation
14' *Varga P. (Davos)*
- 20' Discussion

11:00 - 12:30 **New York 3** **International: in English**



IN23 Israeli orthopedic and trauma care
In cooperation with IOA



Organisation Velkes S. (Herzliya)
Chair Mosheiff R. (Jerusalem), Platz A. (Zürich)

- 2845 Limb salvage or amputation - how to decide?
10'+4' *Lerner A. (Zefat)*

- 2846 Orthopedics in humanitarian aid missions following disasters
10'+4' *Bar-On E. (Petah Tikva), Blumberg N., Gam A.*
- 2847 Paradigm shift in hip fracture care - national commitment
10'+4' *Liebergall M. (Jerusalem), Peleg K., Zohar A., Avi I.*
- 2848 Pediatric military extremities injuries
10'+4' *Shtarker H. (Nahariya)*
- 2849 Delayed-union revisited – active approach by promoting bone regeneration
10'+4' *Beyth S. (Jerusalem), Mosheiff R., Khoury A., Weil Y., Schroeder J., Liebergall M.*
- 2850 Lessons learned from mass casualty incidents in Jerusalem
10'+4' *Mosheiff R. (Jerusalem), Khoury A., Weil Y., Liebergall M.*

11:00 – 12:30

Berlin 2

Basic Research

GR16 Osteoarthritis and cartilage

In cooperation with ORS



Chair Grässel Susanne (Regensburg), Sandell Linda (St. Louis, MO)
Moderation Bertrand Jessica (Magdeburg)

- 2002 ORS KEYNOTE: Joint injury & osteoarthritis
15'+3' *Sandell Linda (St. Louis, MO)*
- 876 Stage-specific microRNAs in chondrocyte maturation and osteoarthritis
6'+3' *Gabler Jessica (Heidelberg), Rütze M., Kynast Katharina, Großner T., Diederichs Solvig, Richter Wiltrud*
- 1041 Reproducibility and regional variations of an optimized gagCEST protocol for the in vivo evaluation of knee cartilage at 7 Tesla
6'+3' *Schreiner M. (Wien), Zbyn S., Apprich S., Brix M., Domayer S., Windhager R., Trattnig S., Mlynarik V.*
- 1340 Ex vivo cartilage defect model: evaluation of cartilage hydrogels
6'+3' *Schwab Andrea (Würzburg), Kock Linda, Ehlicke Franziska, Abadessa Anna, Stichler Simone, Schrön F., Hansmann J., Walles Heike*
- 1276 Rescued chondrogenesis of primary mesenchymal stem cells under interleukin 1 challenge by foamyviral interleukin 1 receptor antagonist gene transfer
6'+3' *Armbruster Nicole (Würzburg), Krieg Jenny, Scheller C., Steinert A.*

- 75 PEO-PPO-PEO micelles as effective rAAV-mediated delivery systems to target human mesenchymal stem cells without altering their differentiation potency
 6'+3' *Rey-Rico Ana (Homburg), Venkatesan J., Frisch Janina, Rial-Hermida Isabel, Concheiro A., Madry H., Alvarez-Lorenzo Carmen, Cucchiariini Madry Magali*
- 783 Enhanced chondrogenesis of mesenchymal stromal cells by intermittent PTHrP: role of pulse duration versus pulse frequency
 6'+3' *Fischer Jennifer (Heidelberg), Ortel Marlen, Hagmann S., Richter Wiltrud*
- 1085 Hypoxia affects extracellular matrix-modulating enzymes and reduces proteoglycan degradation during chondrogenesis of bone marrow-derived stromal cells
 6'+3' *Krähnke M. (Würzburg), Böck T., Meffert R., Blunk T.*
- 2062 Summary
 3' *Bertrand Jessica (Magdeburg)*

14:30 - 16:00

New York 1

International: in English

IN20 Augmented implants
 In cooperation with AOTrauma



Organisation Kammerlander C. (München)
 Chair Gosch M. (Nürnberg), Simmermacher R. (Utrecht)

2287 Augmentation in hip fracture treatment
 15'+7' *Kammerlander C. (München)*

2288 Augmentation in proximal humeral fractures
 15'+7' *Kralinger F. (Wien)*

2289 Why not augment in orthopedic trauma surgery?
 15'+7' *Simmermacher R. (Utrecht)*

2290 Is there a need for augmentation of the trauma surgeon?
 15'+9' *Gosch M. (Nürnberg)*

14:30 - 16:00

New York 3

International: in English

IN24 Fractures around the ankle joint

In cooperation with OTA



Organisation Nerlich M. (Regensburg)
Chair Olson S. (Durham), Sommer C. (Chur)

2674 Pitfalls in ankle dislocation fractures
15'+3' Velkes, S. (Herzliya)

2675 Posterior approach to ankle fractures
15'+3' Rammelt S. (Dresden)

2676 Syndesmotic injuries
15'+3' Ochman Sabine (Münster)

2677 Pilon fractures
15'+3' Sommer C. (Chur)

2678 Salvage procedures
15'+3' Olson S. (Durham)

16:30 - 18:00

New York 1

International: in English

IN21 Midface trauma – who cares?

In cooperation with AOCMF



Organisation Schramm A. (Ulm)
Chair Futran N. (Seattle), Kollig E. (Koblenz)

2291 Emergency medical service comes first, but what needs to be done?
15'+3' Helm M. (Ulm)

2292 Initial or delayed treatment, which algorithm fits?
15'+3' Schramm A. (Ulm)

2293 Why do we need an ophthalmologist in the ER?
15'+3' Keserü M. (Hamburg)

2294 Is there something special with the visual pathways?
15'+3' Rana M. (Hannover)

2295 Soft tissue management
15'+3' Futran N. (Seattle)

16:30 - 18:00

New York 3

International: in English

IN25 **Humerus fractures: surgery or sling?**

In cooperation with OTA



Organisation
Chair

Krettek C. (Hannover)
Miclau T. (San Francisco), Mosheiff R. (Jerusalem)

2949 Three and four part proximal humerus fractures: surgical indication?
Does age change your plan?
12'+3' Krettek C. (Hannover)

2950 Tuberosity fractures: what are the surgical indications and what are
the best techniques to fix?
12'+3' Gerber C. (Zürich)

2951 When and how to fix long metadiaphyseal fractures
12'+3' Giannoudis P. (Leeds)

2952 When and how to fix mid-shaft humerus fractures with nerve palsies
12'+3' Miclau T. (San Francisco)

2953 Extraarticular distal humerus fractures
12'+3' Alt V. (Gießen)

16:30 - 18:00

Berlin 2

Basic Research

GR18 **Bone biology and repair**

In cooperation with ORS



Chair
Moderation

Gartland Allie (Sheffield), Wildemann Britt (Berlin)
Ignatius Anita (Ulm)

2000 ORS KEYNOTE: Bone biology and repair
15'+3' Gartland Allie (Sheffield)

1111 Absence of sensory neurotransmitters substance P and a calcitonin
gene-related peptide impact on osteoblast and osteoclast metabolism
6'+3' Niedermair Tanja (Regensburg), Schirner S., Grifka J., Grässel Susanne

1186 Catalase essentially promotes the osteogenic differentiation potential
of regular as well as osteogenically dysfunctional adipose tissue-
derived stem cells
6'+3' Suschek C. (Düsseldorf), Sahlender Benita, Grotheer Vera, Windolf J.

1318 Establishment of an in vivo model to examine the osteoanabolic epigenome
6'+3' Saito H. (Hamburg), Najafova Zeynab, Jähn Katharina,
Taipaleenmäki Hanna, Gasser A., Johnsen S., Hesse E.

- 1395 Sulfated hyaluronan improves bone defect healing in type 2 diabetic rats by increasing osteoblast function
6'+3' Hofbauer Christine (Dresden), Salbach-Hirsch Juliane, Hintze Vera, Martina Rauner, Scharnweber D., Hofbauer L., Picke Ann-Kristin
- 306 Adipocyte lipoprotein lipase links systemic lipid transport to bone matrix and bone marrow fatty acid profile
6'+3' Niemeier A. (Hamburg), Köhne T., Müller Brigitte, Rüther W., Heeren J., Bartelt A.
- 1115 Transgene expression by Dmp1 promoter fragments occurs in various organs
6'+3' Saito H. (Hamburg), Taipaleenmäki Hanna, Al-Jazzar A., Gasser A., Javaheri B., Bellido Teresita, Andrew P., Hesse E.
- 188 Hypochlorhydria-induced calcium malabsorption does not affect fracture healing but increases post-traumatic bone loss in the intact skeleton
6'+3' Haffner-Luntzer Melanie (Ulm), Heilmann Aline, Heidler Verena, Schinke T., Amling M., Yorgan T., vom Scheidt Annika, Ignatius Anita
- 2063 Summary
3' Ignatius Anita (Ulm)

18:15 - 19:30

Hall 6.2

Posters



Poster happy hour with beer & pretzels

- P012 Pelvis, hip and thigh I
- P013 Pelvis, hip and thigh II
- P014 Arthroplasty I
- P015 Arthroplasty II
- P016 Diseases in childhood and adolescence
- P017 Infection I
- P018 Infection II
- P019 Knee joint I
- P020 Knee joint II
- P021 Shoulder and upper extremity I
- P022 Shoulder and upper extremity II
- P024 Tumour
- P025 Lower leg and foot
- P026 Spine I
- P027 Spine II
- P028 Free topics
- P029 Basic research
- P030 Best papers in basic research (poster awards)

09:00 - 10:30 New York 1 International: in English

IN26 Prevention and management of periprosthetic fractures - part 1: knee

In cooperation with AORcon



Organisation Chair Perka C. (Berlin)
Suthorn B. (Bangkok), Wilber J. (Cleveland)

2613 Biomechanics in periprosthetic fractures
8' Morlock M. (Hamburg)

2614 Risk factors for periprosthetic fractures
8' Abdel M. (Rochester)

2615 Patient preparation
8' Böttner F. (New York)

2616 Technique of revision total knee arthroplasty in periprosthetic fractures
8' Dalury D. (Baltimore)

2617 Technique of osteosynthesis in periprosthetic fractures of the knee
8' Wilber J. (Cleveland)

2618 Periprosthetic fractures in case of infection – the ultimate challenge!
8' Perka C. (Berlin)

42' Discussion

09:00 - 10:30 New York 3 International: in English



IN30 MIO-MIPO – a standard today?

In cooperation with SGACT



Organisation Chair Babst R. (Luzern)
Hoentzsch D. (Tübingen), Schütz M. (Berlin)

2296 MIS/MIO evolution and evidence
15'+3' Babst R. (Luzern)

2297 Mechanics and bone healing in MIO/MIPO when using cerclages
15'+3' Lenz M. (Jena)

2298 Role of MIO/MIPO in the treatment of humeral fractures
15'+3' Platz A. (Zürich)

2299 Role of MIO/MIPO in the treatment of femur fractures
15'+3' *Sommer C. (Chur)*

2300 Role of MIO/MIPO in the treatment of tibia fractures
15'+3' *Link B. (Luzern)*

11:00 - 12:30 New York 1 International: in English

IN27 Controversies in spinal surgery – is therapy in Germany too aggressive?

In cooperation with AOSpine



Organisation Schnake K. (Fürth)
Chair Benneker L. (Bern), Knop C. (Stuttgart)

2630 Treatment of thoracolumbar burst fractures – do we have evidence?
15'+5' *Scholz M. (Frankfurt)*

2631 Why I treat conservative!
10' *Duff J. (Lausanne)*

2632 Why I treat from posterior!
10' *Oner C. (Utrecht)*

2633 Why I treat from posterior and anterior!
10' *Kandziora F. (Frankfurt)*

2634 What would you do? Case discussions and debate
40' *Barbagallo G. (Catania)*

11:00 - 12:30 New York 3 International: in English



IN31 New aspects in chest injury - old wine in new skins?

In cooperation with SGACT



Organisation Platz A. (Zürich)
Chair Lenzlinger P. (Schlieren), Meier C. (Winterthur)

2608 Impact of chest injury on inflammation and bone healing
12'+5' *Huber-Lang M. (Ulm)*

2609 Insertion of thoracic drainage: "When? How? By whom?"
12'+5' *Lenzlinger P. (Schlieren)*

2610 Stabilisation of the thoracic wall
12'+5' *Sommer C. (Chur)*

2611 Penetrating chest injuries: is a TD sufficient?
12'+5' Platz A. (Zürich)

2612 Thoracic trauma and unstable shoulder girdle
12'+5' Meier C. (Winterthur)

14:30 - 16:00

New York 1

International: in English

IN28 Prevention and management of periprosthetic fractures - part 2: hip

In cooperation with AOTrauma



Organisation Wilber J. (Cleveland)
Chair Perka C. (Berlin), Suthorn B. (Bangkok)

2619 Unique problems with periprosthetic hip fractures
8' Wilber J. (Cleveland)

2620 Management of Vancouver A and B1 fractures
8' Raschke M. (Münster)

2621 Techniques for osteosynthesis of Vancouver B2-3
8' Schütz M. (Berlin)

2622 Indications and special techniques for revision arthroplasty
8' Perka C. (Berlin)

2623 Management of Vancouver C and interprosthetic fractures
8'+2' Babst R. (Luzern)

2624 Management of periprosthetic fractures of the pelvis and acetabulum
8' Mayo K. (Seattle)

39' Discussion

14:30 - 16:00

New York 3

International: in English



IN32 Rotator cuff tear and repair – yesterday, today, tomorrow

In cooperation with Swiss Orthopaedics



Organisation Jost B. (St. Gallen)
Chair Farron A. (Lausanne)

2080 Basic science of rotator cuff tear and repair: what do we need now?
12'+3' Zumstein M. (Bern)

- 2081 Natural history of rotator cuff tears: when do we need to operate?
12'+3' *Jost B. (St. Gallen)*
- 2082 Reparable massive rotator cuff tears: how to repair
12'+3' *Lädermann A. (Meyrin)*
- 2083 Irreparable rotator cuff tears: joint preserving options
12'+3' *Flury M. (Zürich)*
- 2084 Outcome after rotator cuff repair: what can be expected
12'+3' *Farron A. (Lausanne)*
- 2085 Rotator cuff tear and repair in the last 30 years: my experience
12'+3' *Gerber C. (Zürich)*

16:30 - 18:00

New York 1

International: in English

IN29 Trauma management in the Iran – a retrospective view
In cooperation with POTA



Organisation Chair Lob G. (München)
Holz U. (Neulingen), Tavakoli M. (Tehran)

2072 More knowledge about POTA and traumatology management in Iran
7'+3' *Alizadeh K. (Tehran)*

2073 How to prevent misdiagnosis in polytrauma patients?
7'+3' *Tavakoli M. (Tehran)*

2074 When should you try to reconstruct distal radius malunion?
7'+3' *Moradi Roshanak (Tehran)*

2075 Limb salvage versus amputation
7'+3' *Ebrahim Pour Jafari Nejad A. (Tehran)*

2076 Diagnosis and pitfalls of infection following orthopaedic surgery
7'+3' *Mortazavi S. (Tehran)*

2077 When and how do we operate an old acetabular fracture?
7'+3' *Abolghasemian M.*

2078 Spinopelvic dissociation
7'+3' *Mirza Shahi B. (Tehran)*

2079 Complications after operative treatment of subcapital humerus fracture
7'+3' *Tezval M. (Recklinghausen)*



IN33

Joint preserving hip surgery

In cooperation with Swiss Orthopaedics

Organisation
Chair

Leunig M. (Zürich)

Beck M. (Luzern)

2301 Appreciation of surgical anatomy – key for success
10'+5' *Grob K. (St. Gallen)*

2302 Important clinical and radiographic pitfalls
10'+5' *Siebenrock K. (Bern)*

2303 Femoral osteotomies – back to the future?
10'+5' *Beck M. (Luzern)*

2304 Pelvic osteotomies – classical and advanced indications
10'+5' *Ganz R. (Zürich)*

2305 Hip arthroscopy – can we expect more in the future?
10'+5' *Dora C. (Zürich)*

2306 How should we report our results?
10'+5' *Leunig M. (Zürich)*

09:00 - 10:30 New York 1 International: in English

IN36 Tissue engineering and stem cell therapy – today and tomorrow

Organisation Schulze-Bertram Monika (Falkensee)
Chair Sckell A. (Greifswald)

2644 Introduction
5' *Schulze-Bertram Monika (Falkensee), Sckell A. (Greifswald)*

2645 Developmental engineering of cartilage from stem cells
15'+5' *Richter Wiltrud (Heidelberg)*

2646 Stem cells for cartilage tissue engineering: ideas, reality and future prospects
15'+5' *Schulze-Tanzil Gundula (Nürnberg)*

2647 BMP antagonists - new targets to optimize the efficacy of BMPs for bone tissue engineering
15'+5' *Klenke F. (Bern)*

2648 Stem cell-based intraarticular regeneration – clinical aspects
15'+5' *Steinert A. (Würzburg)*

2649 Summary
5' *Schulze-Bertram Monika (Falkensee), Sckell A. (Greifswald)*

11:00 - 12:30 New York 1 International: in English

IN37 Ambulatory surgery – international standard and current status in Germany In cooperation with BAO

BAO ^{for}

Organisation Neumann A. (München)
Chair Tietze-Schnur Petra (Bremerhaven), Weinhart H. (Starnberg)

2920 Day surgery: what is reality in France?
15'+5' *Vons Corinne (Bondy)*

2989 Performance statistics and reimbursement of AS in the Netherlands
15'+5' *Eshius J. (Amsterdam)*

2922 Current status of out-hospital AS in Germany
15'+5' *Weinhart H. (Starnberg)*

2921 Quality assessment following AS in Germany
15'+5' *Bäcker K. (München)*

11:00 - 12:30

New York 3

International: in English

IN38 HSS meets DKOU – arthroplasty concepts at the Hospital for Special Surgery in New York

Organisation Böttner F. (New York)
Chair Su E. (New York)

2635 Meet HSS: introduction video
8'+2' Böttner F. (New York)

2636 The indication for unicompartmental knee arthroplasty
8'+2' Böttner F. (New York)

2637 Navigation and robotics in joint replacement
8'+2' Mayman D. (New York)

2638 Primary total knee arthroplasty: why we do PS knees and resurface the patella
8'+2' Su E. (New York)

2639 Septic exchange arthroplasty: one stage versus two stage
8'+2' Sculco P. (New York)

2640 Update: rule of hip resurfacing in the USA
8'+2' Su E. (New York)

2641 Anterior total hip replacement: the past or the future?
8'+2' Böttner F. (New York)

2642 Safe range of motion of total hip replacement: what we need to know to position our components
8'+2' Mayman D. (New York)

2643 Metal on metal bearing: what we know today
8'+2' Sculco P. (New York)

14:30 - 16:00

New York 1

International: in English

IN34 Bombing related injuries – terror attacks in our cities – are we well prepared?
In cooperation with Bundeswehr



Organisation Willy C. (Berlin)
Chair Arens S. (Berlin), Gaab Jasmin (Berlin), Peleg K. (Tel Aviv)

2976 Preparedness for terror attacks – what is the role of the trauma surgeon?
10' Gaab Jasmin (Berlin)

- 2977 Surgical lessons learned from suicide bombing attacks
15' *Almog G. (Jerusalem)*
- 2978 On constant alert: lessons to be learned from Israel's emergency response to mass-casualty terrorism incidents
15' *Peleg K. (Tel Aviv)*
- 2979 Experiences from Paris 11/13 – the surgical point of view
15' *Tresson P. (Paris)*
- 2980 Surgical lessons learned from terrorist attacks in Brussels 22th March 2016
15' *Vanderheyden B. (Brüssel)*
- 19' Discussion

16:30 - 18:00

New York 1

International: in English

IN35 Limb salvage

Organisation Chair Krettek C. (Hannover)
Friemert B. (Ulm), Lerner A. (Zefat)

2954 Risk factors for amputations versus limb salvage
12'+3' *Olson S. (Durham)*

2955 The role of scores in the decision making process
12'+3' *Pape H. (Aachen)*

2956 What did we learn from the LEAP study?
12'+3' *Mosheiff R. (Jerusalem)*

2957 Targeted muscle innervation
12'+3' *Aszmann O. (Wien)*

2958 What is the role of Endo-Exo prostheses?
12'+3' *Aschoff H. (Lübeck)*

GMS

Abstracts for scientific lectures and posters are available from October 2016 at www.egms.en.



Rookie Night

A night for the next generation at the club 40seconds – just pay your drinks and have fun!

- Wednesday, 26 October 2016, 21:00 h
- Public transport: U1 Kurfürstenstr., U2 Mendelssohn-Bartholdy-Park, Bus M29, M48, M85 Potsdamer Brücke
- Admission: free
- Registration: www.dkou.de



Charity Run/Walk

Ready – set – go: With your donation of a running shirt sponsored by Brainlab you automatically support the Babeluga adiposity foundation. Meet you at Tiergarten to run, walk or cheer! Just register and don't forget to indicate your size!

- Thursday, 27 October 2016, 07:15 – 08:30 h
- Organisation: BVOU (Professional Association of Orthopaedics and Orthopaedic Surgeons)
- Meeting point/end: Platz des 18. März, corner Straße des 17. Juni/Ebertstraße at the entrance to the Tiergarten (Brandenburger Tor)
- Public transport: S1 and S2, Bus 100 and TXL (Brandenburger Tor)
- By car: parking spaces along Straße des 17. Juni
- Costs per person: EUR 25.00
- Registration: www.dkou.de

Please note: To visualise the idea of "TOGETHER WE RUN/WALK FOR CHARITY", kindly wear the purchased DKOU-shirt during the run/walk. Thank you!



Congress Party

"Back to the future" will be the slogan in the new location at Station Berlin! Get your ticket now, take your teens (free), hop on the bus and enjoy!

- Thursday, 27 October 2016, 19:30 h
- Bus transfer: 18:45 h from Messe Berlin, South Entrance and Hotel Sofitel
- Public transport: U1, U2 Gleisdreieck, S1, S2, S25 Anhalter Bahnhof
- Costs per person: EUR 80.00 (medical specialist), EUR 60.00 (resident in training, students and medical assistance staff, on presentation of a confirmation)
- Bus transfer, buffet, drinks, entertainment are included in the fee
- Children and teens up to 18 years have free access but must be booked!
- Return transfer: from 23:30 h to Messe Berlin, South Entrance and Hotel Sofitel
- Registration: www.dkou.de

The technical exhibition is open from 08:30 - 18:30 h on all four congress days (Tuesday - Friday). A congress or entrance ticket is required for admittance. Registration can be carried out online before the congress or on-site in Berlin.

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105 sqm of pure innovation: The OR of the Future in Hall 4.2 is definitely the highlight of the industrial exhibition of this years' congress. After the grand unveiling on Tuesday, 25 October 2016, 10:00 h all delegates are cordially invited to check out the real life OR, to try out the high-tech instruments or to look for advice.

Partners





Pre-registration is operated online until 15 October 2016. Inside Europe, tickets and vouchers will be posted previously to the congress to prevent queueing on-site. The congress office opens for on-site registration in Messe Berlin, South Entrance on Monday, 24 October 2016, 18:00 - 20:00 h and Tuesday - Friday, 25 - 28 October 2016, 08:00 - 18:00 h. Please calculate waiting at peak times!

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free

free

BVOU, DGOOC, DGOU, DGU

Non-members,
remaining professions

day pass EUR 120 per day
congress pass EUR 300 4 days

day pass EUR 150 per day
congress pass EUR 360 4 days

Residents in training,
part-time employees,
parental leave, handicapped,
unemployed, retired

day pass EUR 85² per day
congress pass EUR 180² 4 days

day pass EUR 110² per day
congress pass EUR 240² 4 days

Orthopaedic technicians,
physiotherapists, nurses,
rescue service providers,
students

day pass EUR 40^{2,3} per day
congress pass EUR 60² 4 days

day pass EUR 50^{2,3} per day
congress pass EUR 90² 4 days

¹ Only applies for speakers and chairpersons in the congress programme, not in the satellite programme

² Reduction is only granted at official confirmation (certificate, enrolment)

³ Free for students on Wednesday, 26 Oct 2016 (students' day)

Seminar ticket

in combination with
congress ticket

EUR 30 per seminar

EUR 30 per seminar

All seminars are in German language and can be booked on the DKOU website.

Entrance ticket

Industrial exhibition,
satellite programme

EUR 20⁴ per day

EUR 20⁴ per day

⁴ Including official ceremonies, excluding certification



No matter where your journey to Berlin starts – with the discounts below you will have a good trip to and around the city:



By plane

- Tegel Airport: national/international line operation (8 km)
- Schönefeld Airport: low-cost-carrier (25 km)
- www.berlin-airport.de/en

Official airline

Fly with Lufthansa Group and get up to 10% off. Nice to have you on board!

- <http://dkou.org/en/official-airline/>
- code DEZZMSO



By train

- Station Zoologischer Garten (5 km)
- Main Station (9 km)
- Station Friedrichstraße (10 km)
- www.bahn.de/en

German railways

Deutsche Bahn offers flat rates for round trips:

- 2nd class EUR 99
- 1st class EUR 159
- hotline +49 1806 311153
- <http://dkou.org/en/german-railways>
- code "INTERCONGRESS DKOU"



Public transport

- S5 Messe Süd
- Bus 349 Jaffestraße
- www.bvg.de/en

Welcome card

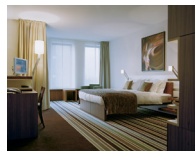
All in one: Berlin public transport as well as discounts for sight seeing, boat trips, museums, souvenirs, restaurants... just add it to your online registration!

- 48 h EUR 19.50
- 72 h EUR 27.50



By car

- A10 Berliner Ring, guidance system "Messegelände"
- Parking area P18, Jaffestraße (to be paid)



Accommodation

Book your room directly in one of the 12 surrounding hotels at special rates! Due to room limitations, early reservation is recommended, for more details please confer the congress website.

- deadline 30 Sep 2016
- keyword "Intercongress DKOU"

Messe Berlin



Messe Berlin, South Entrance

Hildegard Coronini, Marieke Cloppenburg

Jafféstraße, 14055 Berlin, Germany

☎ 030 3038-3067, ☎ 030 3038-3032

coronini@messe-berlin.de, www.messe-berlin.de

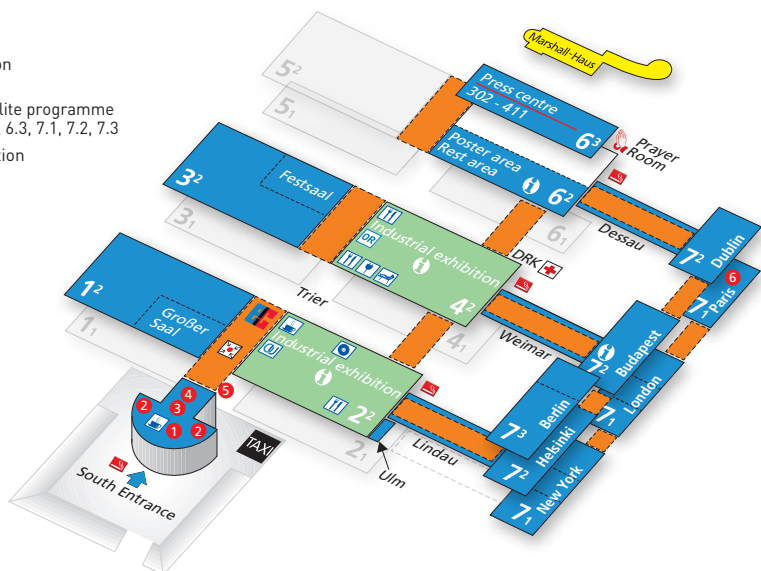
Wardrobe

At the entrance foyer there is a fee-based cloakroom available to deposit clothes and luggage.

Opening hours

■ Tuesday	25.10.2016	08:00 - 23:00 h
■ Wednesday	26.10.2016	08:00 - 20:00 h
■ Thursday	27.10.2016	08:00 - 21:00 h
■ Friday	28.10.2016	08:00 - 19:30 h

- ↑ South Entrance
- Opening reception
Marshall-Haus
- Congress & satellite programme
Halls 1.2, 3.2, 6.2, 6.3, 7.1, 7.2, 7.3
- Industrial exhibition
Halls 2.2, 4.2
- Corridors
- Press centre
Hall 6.3



- | | | |
|---|--|--|
| <ul style="list-style-type: none"> 1 Congress office
Entrance foyer 2 Wardrobe, lost & found
Entrance foyer 3 Info market
Entrance foyer 4 Media check
Entrance foyer 5 KIDS care
Courtyard hall 2.1 6 Students' day
Hall 7.1 (Paris 1) | <ul style="list-style-type: none"> ☕ Cafés
Entrance foyer, hall 2.2 🍴 Restaurants
Halls 2.2, 4.2 🔌 Charging station
Hall 4.2 🔌 BVOU, DG00C, DG0U, DGU
Hall 2.2 OR OR of the Future
Hall 4.2 🎧 Abstract-CD
Hall 2.2 | <ul style="list-style-type: none"> 📍 Meeting point south & picture spot
Foyer hall 2.2 💰 Cashpoint
Foyer hall 2.2 📄 Information
Halls 2.2, 4.2, 6.2, 7.2 🚬 Smoking areas
South entrance, hall passages 🏥 Medical service
Hall 4.2 🙏 Prayer room
Outside hall 6.2 |
|---|--|--|

DKOU2017

German Congress of Orthopaedics and Traumatology

Berlin 24 - 27 October



MOTION
IS LIFE



Abstract
deadline

15 January 2017
www.dkou.de



Steady yet flexible – passionately committed to your success.

cordial!
progressive
strategic
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Berlin Düsseldorf Freiburg Wiesbaden

Four locations – one point of view: customer proximity.

Enjoying exceptional relations in all relevant areas, we activate and combine competence – on-site and throughout Europe. Many years of experience have made us experts in the field of congress organisation, with valuable con-

tacts and outstanding capabilities in constructive teamwork. Given the great responsibility, every function is a position of trust. Mutual respect is the essential ingredient to ensure understanding among everyone involved.



www.intercongress.de



INTERCONGRESS

inspires. effects!