

Curriculum Vitae

Boyko Guergov Gueorguiev

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Personal data

Date of birth	22. September 1959
Hometown	Pfäffikon ZH
Marital status	married

Education

12.2009	PhD degree, Buglarian Academy of Sciences, BG-Sofia Dissertation: crystallographic structure and mechanical properties of thermally sprayed metallic, ceramic and bioceramic coatings
10.2005 – 12.2009	External PhD student, University “St. Kliment Ohridski” Faculty of physics, Department of solid state physics and microelectronics, BG-Sofia Speciality: structure, mechanical and thermal properties of condensed matter
10.1984	MSc degree: solid state physics University “St. Kliment Ohridski”, BG-Sofia Thesis: Optimised method to measure surface photovoltage in semiconductors
10.1979 – 10.1984	Study, University “St. K. Ochridski” Faculty of physics, Department of solid state physics and microelectronics, BG-Sofia
09.1973 – 06.1977	Mathematical grammar school “Ivan Zenov”, BG-Vratza

Professional experience

04.2015 – now	Honorary Professor, Technical University of Varna, BG-9010 Varna
01.2011 – now	Program Leader, Biomedical Development, AO Research Institute Davos, 7270 Davos
07.2010 –12.2010	Senior Project Leader, Biomedical Services, AO Research Institute Davos, 7270 Davos
10.2009 – 06.2010	Senior Project Engineer Medical Devices, Sedax AG, 8610 Uster
03.2003 – 09.2009	Project Leader, Biomechanical Research, AO Research Institute Davos, 7270 Davos
06.1991 – 02.2003	Scientific assistant, Institute of mine building and University “St. Kliment Ohridski”, Faculty of physics, Department of solid state physics and microelectronics, BG-Sofia
11.1984 – 05.1991	Scientific collaborator, Institute of mine building, BG-Sofia Thermal spraying to improve mechanical properties of machine parts in mine building industry

Diplomas

2010	PhD physicist with speciality: structure, mechanical and thermal properties of condensed matter
1984	MSc physicist with speciality: solid state physics
1977	Mathematical grammar school

Specific IT knowledge

Matlab
Ansys WB
nCode DesignLife
Femfat
SPSS
Open VMS
SolidWorks

Languages

Bulgarian, native
German
English (CAE, BEC Vantage)
Russian

Published manuscripts

Y.P.Acklin, I.Zderic, J.Buschbaum, P.Varga, J. Inzana, S.Grechenig, R.G. Richards, B.Gueorguiev, P.Schmitz, *Biomechanical comparison of plate and screw fixation in anterior pelvic ring fractures with low bone mineral density*, Injury (2016) epub

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G.Willhuber, I.Zderic, F.Gras, D.Wahl, C.Sancineto, J.Barla, M.Windolf, R.G.Richards, B.Gueorguiev, *Analysis of sacro-iliac joint screw fixation: does quality of reduction and screw orientation influence joint stability? A biomechanical study?* Int Orthop (2015) epub

L.Hofmann-Fliri, T.Nicolino, J.Barla, B.Gueorguiev, R.G.Richards, M.Blauth, M.Windolf, *Cement augmentation of implants—no general cure in osteoporotic fracture treatment. A biomechanical study on non-displaced femoral neck fractures*, J Orthop Res (2015) epub

P.Varga, J.Schwiedrzik, P.K.Zysset, L.Fliri-Hofmann, D.Widmer, B.Gueorguiev, M.Blauth, M.Windolf, *Nonlinear quasi-static finite element simulations predict in vitro strength of human proximal femora assessed in a dynamic sideways fall setup*, J Mech Behav Biomed Mat 57 (2015) 116

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M.Loibl, M.Korsun, J.Reiss, B.Gueorguiev, M.Nerlich, C.Neumann, F.Baumann, *Spinal fracture reduction with a minimal-invasive Schanz Screw system: clinical and radiological one-year follow-up*, 46S4 Injury (2015) S75

S.Grechenig, A.Gänsslen, B.Gueorguiev, A.Berner, M.Müller, M.Nerlich, P.Schmitz, *PMMA-augmented SI screw: a biomechanical analysis of stiffness and pull-out force in a matched paired human cadaveric model*, Injury 46S4 (2015) S125

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A.Laedermann, B.Gueorguiev, C.Charbonnier, B.V.Stimec, J.H.D.Fasel, I.Zderic, J.Hagen, G.Walch, *Scapular notching on kinematic simulated range of motion after reverse shoulder arthroplasty is not the result of impingement in adduction*, Medicine 94 (38) (2015) epub

R.Shanmugam, M.Ernst, K.Stoffel, M.F.Fischer, D.Wahl, R.G.Richards, B.Gueorguiev, *Angular stable lateral plating is a valid alternative to conventional plate fixation in the proximal phalanx. A biomechanical study*, Clin Biomech 30 (2015) 405

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M.Windolf, M.F.Fischer, A.W.Popp, R.Matthys, K.Schwieger, B.Gueorguiev, J.B.Hunter, T.F.Slono, *End caps prevent nail migration in elastic stable intramedullary nailing in pediatric femoral fractures: A biomechanical study*, BJJ 9-B (2015) 558

A.K.Sands, C.White, M.Blankstein, I.Zderic, D.Wahl, M.Ernst, M.Windolf, J.E.Hagen, R.G.Richards, K.Stoffel, B.Gueorguiev, *Assessment of ankle and hindfoot stability and joint pressures using a human cadaveric model of a large lateral talar process excision. A biomechanical study*, Medicine 94 (2015) e606

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T.Pohlemann, B.Gueorguiev, Y.Agarwal, M.Windolf, D.Wahl, C.M.Sprecher, K.Schwieger, M.Lenz, *Dynamic locking screw improves fixation strength in osteoporotic bones: an in vitro study on an artificial bone model*, Int Orthop (SICOT) 39 (2015) 761

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D.Wähnert, L.Hofmann-Fliri, R.G.Richards, B.Gueorguiev, M.J.Raschke, M.Windolf, *Implant augmentation: Adding bone cement to improve the treatment of osteoporotic distal femur fractures - A biomechanical study using human cadaver bones*, Medicine 93 (2014) 1

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- F.Stuby, S.Doebele, Y.Agarwal, M.Windolf, B.Gueorguiev, B.G.Ochs, *Influence of flexible fixation for open book injury after pelvic trauma - a biomechanical study*, Clin Biomech 29 (2014) 657
- M.Blankstein, D.Widmer, M.Götzen, L.Hofmann-Fliri, R.G.Richards, B.Gueorguiev, M.Windolf, *Assessment of intra-osseous femoral head pressures during cement augmentation of the perforated proximal femur nail antirotation (PFNA) blade*, JOT 28 (2014) 398
- Y.Agarwal, S.Doebele, M.Windolf, T.Shiozawa, B.Gueorguiev, F.M.Stuby, *Two-leg alternate loading model – A different approach to biomechanical investigations of fixation methods of the injured pelvic ring with focus on the pubic symphysis*, J Biomech (2014) 380
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- M.Loibl, M.Baeumlein, F.Massen B.Gueorguiev, R.Glaab, T.Perren, P.Rillmann, C.Ryf, F.D.Naal, *Sports activity after surgical treatment of intra-articular tibial plateau fractures in skiers*, AJSM 41 (2013) 1340
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G.Alajmo, U.Schlegel, B.Gueorguiev, R.Matthys, E.Gautier, *Plunging when drilling: effect of using blunt drill bits*, JOT 26 (2012) 482

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J.Horn, B.Gueorguiev, S.Brianza, H.Steen, K.Schwieger, *Biomechanical evaluation of two-part surgical neck fractures of the proximal humerus fixed by an angular stable locked intramedullary nail*, JOT 25 (2011) 406

B.Gueorguiev, B.Ockert, K.Schwieger, D.Waehnert, M.Lawson-Smith, M.Windolf, K.Stoffel, *Angular stability potentially permits fewer locking screws compared to conventional locking in intramedullary nailed distal tibia fractures. A biomechanical study*, JOT 25 (2011) 340

S.Rausch, K.Klos, H.Stephan, K.Hoffmeier, F.Gras, M.Windolf, B.Gueorguiev, G.Hofmann, T.Mückley, *Evaluation of a polyaxial angle-stable volar plate in a distal radius C-fracture model – a biomechanical study*, Injury 42 (2011) 1248

B.Gueorguiev, D.Waehnert, D.Albrecht, B. Ockert, M.Windolf, K.Schwieger, *Effect on dynamic mechanical stability and interfragmentary movement of angle-stable locking of intramedullary nails in unstable distal tibia fractures. A biomechanical study*, J Trauma 70 (2011) 358

T.Mendel, M.Haenni, B.Gueorguiev, D.Wohlrab, G.O.Hofmann, *The virtual isocentric aiming device: a new mechanical targeting concept*, Arch Orthop Trauma Surg 131 (2011) 1655

K.Klos, T.Mückley, D.Waehnert, H.Zwipp, B.Gueorguiev, K.Schwieger, G.Hofmann, M. Windolf, *Zur Nutzung von DensiProbe™ bei der Rückfußarthrodese. Kann das Versagen durch eine mechanische Bestimmung der Knochenfestigkeit vorhergesagt werden? The use of DensiProbe™ in hindfoot arthrodesis. Can fusion failure be predicted by mechanical bone strength determination?* Z Orthop Unfall 149 (2011) 206

M.Windolf, E.R.Maza, B.Gueorguiev, V.Braunstein, K.Schwieger, *Treatment of distal humeral fractures using conventional implants. Biomechanical evaluation of a new implant configuration*, BMC Musculoskeletal Disorders 11:172 (2010)

S.Brianza, M.Plecko, B.Gueorguiev, M.Windolf, K.Schwieger, *Biomechanical evaluation of a new fixation technique for internal fixation of three-part proximal humerus fracture in a novel cadaveric model*, Clin Biomech 25 (2010) 886

K.Klos, D.Waehnert, B.Gueorguiev, K.Schwieger, G.Hofmann, M.Windolf, T.Mueckley, *Development of a technique for cement augmentation of nailed tibiototalcalcaneal arthrodesis constructs*, Clin Biomech (2010) 576

K.Klos, B.Gueorguiev, T.Mueckley, R.Froeber, G.Hofmann, K.Schwieger, M.Windolf, *Stability of medial locking plate and compression screw versus two crossed screws for lapidus arthrodesis*, Foot Ankle Int 31 (2010) 158

K.Klos, M.Windolf, K.Schwieger, P.Kuhn, M.Haenni, B.Gueorguiev, G.Hofmann, T.Mueckley, *Intraoperative mechanical bone strength determination in tibiototalcalcanealfusion: a biomechanical Investigation*, Foot Ankle Int 30 (2009) 1183

K.Klos, B.Gueorguiev, K.Schwieger, R.Froeber, S.Brodt, G.Hofmann, M.Windolf, T.Mueckley, *Comparison of calcaneal fixation of a retrograde intramedullary nail with a fixed-angle spiral blade versus a fixed-angle screw*, Foot Ankle Int 30 (2009) 1212

M.Windolf, R.Muths, V.Braunstein, B.Gueorguiev, M.Haenni, K.Schwieger, *Quantification of cancellous bone compaction due to DHS-Blade insertion and influence upon cut-out resistance*, Clin Biomech 24 (2009) 53

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A.Panayotov, B.Gueorguiev, R.Enikov, D. Oliver, *Plasma spraying of metal coatings at Minstroy Holding AD*, Mashinostroene 2 (1988) 71

Published reviews

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Published patents

Piezoelektrischer Vibrator (Patent)

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K.Germanova, Ch.Hardalov, V.Strashilov, B.Gueorguiev

Published books and book chapters

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B.Gueorguiev, I.Tchobanov, I.Kostadinov, *Welding and thermal spraying to renovate spare parts for mining and building industry machinery*, 1989, Sofia, Tehnika

Presentations proceedings conferences & congresses

M.Bäumlein, B.Gueorguiev, P.Rillmann, M.Nerlich, A.Hanke, M.Loibl, *Klinisch-radiologischer Langzeitverlauf nach intraartikulärer Tibiakopffraktur bei Skifahrern*, Erster gemeinsamer Kongress der Deutschen Gesellschaft für Sportmedizin und Prävention e.V. (DGSP) und der Deutschen Gesellschaft für Prävention und Rehabilitation von Herz-Kreislaufkrankungen e.V. (DGPR), Frankfurt, Germany, 30 September-1 Oktober (2016)

P.Schmitz, M.Müller, F.Baumann, J.Weber, B.Gueorguiev, Y.Acklin, M.Nerlich, S.Grechenig, *Der zementaugmentierte Transiliacale Fixateur interne (caTIFI) zur Osteosynthese osteoporotischer Beckenringfrakturen: Erste klinische Ergebnisse*, DKOU, Berlin, Germany, 25-28 October (2016)

M.Lenz, K.Stoffel, K.Mayo, H.Kielstein, G.O.Hofmann, B.Gueorguiev, *Einfluss der Knochendichte auf die Plattenverankerung im großen Trochanter - Eine biomechanische Studie zu periprothetischen Femurfrakturen*, DKOU, Berlin, Germany, 25-28 October (2016)

B.Gueorguiev, T.Sommerer, K.Klos, I.Zderic, R.G.Richards, P.Simons, *Biomechanical comparison of two plating systems for medial column fusion in foot*, DKOU, Berlin, Germany, 25-28 October (2016)

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F.Krause, A.Barandun, G.Klammer, I.Zderic, B.Gueorguiev, T.Schmid, *Ankle joint pressure changes in high tibial and distal femoral Osteotomies*, AOFAS, Toronto, Canada, 20-23 July (2016)

B.Gueorguiev, Y.Acklin, I.Zderic, J.Buschbaum, P.Varga, J.Inzana, S.Grechenig, R.G. Richards, P.Schmitz, *Biomechanical investigation of two fixation methods in unstable anterior pelvic ring fracture model*, ESB, Lyon, France, 10-213 July (2016)

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M.Lenz, K.Stoffel, H.Kielstein, K.Mayo, G.O.HOFmann, B.Gueorguiev, *Fixation of periprothetic fractures – trochanteric hook or subtrochanteric bicortical locking screws?* ESB, Lyon, France, 10-13 July (2016)

B.Gueorguiev, T.Sommerer, K.Klos, I.Zderic, R.G. Richards, P.Simons, *Biomechanical evaluation of foot medial column fusion using two novel plating systems*, ESB, Lyon, France, 10-13 July (2016)

B.Gueorguiev, J.Hagen, R.G. Richards, M.Lenz, P.Simons, K.Klos, *Investigation of syndesmotic reconstructions utilizing weightbearing computer tomography*, ESB, Lyon, France, 10-13 July (2016)

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P.Schmierer, L.Smolders, I.Zderic, B.Gueorguiev, A.Pozzi, S.Knell, *Biomechanical evaluation of different plating techniques for feline ilial fracture stabilization*, ESB, Lyon, France, 10-13 July (2016)

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F.Krause, A.Barandun, G.Klammer, I.Zderic, B.Gueorguiev, T.Schmid, *Ankle joint pressure changes in high tibial and distal femoral Osteotomies*, Foot International 2016 EFAS (European Foot and Ankle Society), DAF (Deutsche Assoziation für Fuss und Sprunggelenk e.V.) , i-FAB (International Foot and Ankle Biomechanics Community) Congress, Berlin, Germany, 23-25 June (2016)

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Scientific awards

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Third prize Young Investigator Award: A.Hanke, B.Gueorguiev, S.Gehmert, R.Glaab, T.Frölich, H.Kuttner, M.Nerlich, C.Ryf, P.Rillmann, M.Bäumlein, M.Loib, *Klinisch-radiologischer Langzeitverlauf nach intraartikulärer Tibiakopffraktur bei Skifahrerinnen*, 30. Jahreskongress der GOTS (Gesellschaft für Orthopädisch-Traumatologische Sportmedizin), Basel, Switzerland, 12-13 June (2015)

First prize for best oral presentation: D.Widmer, L.Hofmann-Fliri, E.Zweifel, M.Blankstein, B.Gueorguiev-Rüegg, M.Blauth, M.Windolf, *Prophylactic reinforcement of the porotic proximal femur. A systematic approach to find a valid solution*, 15th ECTES & 2nd World Trauma Congress, Frankfurt, Germany, 24-27 May (2014)

The poster award: K.Klos, S.Rausch, U.Wolf, M.Windolf, B.Gueorguiev, *Biomechanischer Vergleich zwischen einer winkelstabilen Platten- und einer zementaugmentierten Schraubenosteosynthese zur Versorgung von Kalkaneusfrakturen*, 20. Jahrestagung D.A.F. (Deutsche Assoziation für fuss und Sprunggelenk e.V.), Münster, Germany, 28-29 March (2014)

International Federation of Foot and Ankle Societies (IFFAS) award for best international paper: T.Schmid, S.Zurbriggen, I.Zderic, B.Gueorguiev, M.Weber, F.Krause, *Ankle joint pressure changes in a pes cavovarus model: supramalleolar valgus osteotomy versus lateralizing calcaneal osteotomy*, AOFAS, Hollywood, Florida, USA, 17-20 July (2013)

Third award poster presentation: M.Lenz, S.M.Perren, B.Gueorguiev, R.G.Richards, A. Fernandez Dell'Oca, D.Höntzsch, G.O.Hofmann, M.Windolf, *The concept of point contact fixation – interface mechanics of cerclages*, 14th ECTES, Lyon, France, 4-7 May (2013)

Best Oral Presentation Award at the congress 'Osteosynthese International 2012': M.Lenz, S.M.Perren, B.Gueorguiev, R.G.Richards, G.O.Hofmann, M.Windolf, *Fracture fixation around intramedullary implants - a biomechanical study on different cerclage looping techniques*, Gerhard Küntscher Society (2012)

Second poster award: E.Gautier, U.Schlegel, B.Gueorguiev, R.Matthys, G.Alajmo, *Plunging when drilling - effect of using blunt drill-bits*, 71. Jahreskongress der SGOT, Lausanne, Switzerland, 22-24 June (2011)

Third award oral presentation: M. Lenz, M. Windolf, S. Rothstock, T. Mückley, G.O. Hofmann, R.G. Richards, K. Schwieger, B. Gueorguiev, *Die proximale Fixation periprothetischer Femurfrakturen. Eine biomechanische Studie zum Vergleich zweier Techniken*, VLOU 2011, Jena (Germany), 20-21 May (2011)

First poster award: K.Klos, B.Gueorguiev, K.Schwieger, M.Windolf, G.Hofmann, T.Mückley, *Biomechanische Untersuchungen zur Lapidusarthrodese mittels medialer winkelstabiler Platte*, 16. Jahrestagung der Deutschen Assoziation für Fuss und Sprunggelenk e.V. (D.A.F.) 2010

Wilhelm Roux Award 2008: K.Schwieger, B.Gueorguiev, M.Lawson-Smith, M.Windolf, K.Stoffel, *Biomechanisches Potential winkelstabiler Marknagelverriegelung bei distalen Tibiafrakturen*, DGU (2008)

Supervision theses

Manuel Schneider, *Finite element modelling of arrested bone growth*, masterwork thesis, University of Stuttgart, Institute of Applied Mechanics, Chair of Continuum Mechanics, Continuum Biomechanics and Mechanobiology Research Group, 23 March 2016 (Supervisor)

Martin Petrov Hristov, *Development of a system for ultrasound telemetric monitoring of osseointegration during skeletal reconstruction*, masterwork thesis, Technical University Varna, Faculty of electronics, Department of Electronics and Microelectronics, faculty number 51252011, mentors Boyko Gueorguiev-Rüegg and Angel Marinov, Varna, 2015 (Mentor)

Deyan Yanoshev Veselinov, *Computer animation: Clip for presentation X-in-one*, masterwork thesis, Technical University Varna, Mechanical Engineering Faculty, Department Industrial Design, faculty number 11213004, mentor Prof. Dr. Plamen Bratanov, Varna, 2014 (Supervisor)

Philipp Steinmetz, *Analyse des Verteilungsverhaltens von Knochenzement bei der Injektion in osteoporotische Wirbelkörper anhand von offenporigen Schaumstoffmodellen*, Bachelorarbeit, Hochschule Ansbach, Fakultät Ingenieurwissenschaften, Studiengang Biomedizinische Technik, August 2013 (Supervisor)

Philipp Steinmetz, *Analyse des Fließverhaltens von Knochenzement bei Injektion durch medizinische Kanülen*, Projektarbeit, Hochschule Ansbach, Fakultät Ingenieurwissenschaften, Studiengang Biomedizinische Technik, August 2013 (Supervisor)

Ursula Maria Theresia Eberli, *The Influence of bone cement stiffness modifications on implant anchorage in osteoporotic bone*, Master thesis, Fulfilment of the requirements for the Master of Science ETH in human Movement Sciences (MSc ETH HMS), ETH Zurich, Department of Biology, Master Professor Prof. Dr. Ralph Müller, December 2011 (Supervisor)

Anton Asenov Hristov, *Crystallographic structure parameters of biocompatible hydroxyapatite layers*, master of science diploma thesis, University of Sofia "St. Kliment Ohridski", Faculty of physics, Department of solid state physics and microelectronics, faculty number 120072, Supervisor Prof. DSc Ivanka Iordanova, Sofia, 2010 (scientific consultant)

Erich Roffler, *Prophylaktische Augmentation von osteoporotischen Femora zur Verhinderung von Frakturen*, Masterarbeit zur Erlangung des Masters of Science ETH in Bewegungswissenschaften (MSc ETH Bew.-wiss), ETH Zürich, Departement Biologie, Referent Prof. Dr. Ralph Müller, Juni 2009 (Betreuer)

Anton Asenov Hristov, *Thermal spraying technologies for deposition of biomedical coatings*, bachelor diploma thesis, University of Sofia "St. Kliment Ohridski", Faculty of physics, Department of solid state physics and microelectronics, faculty number 20130, Supervisor Prof. DSc Ivanka Iordanova, Sofia, 2008 (scientific consultant)

Galia Mitkova Petrova, *Implant surface coatings for modern medicine*, University of Sofia "St. Kliment Ohridski", Faculty of physics, Department of solid state physics and microelectronics, faculty number 20130, Supervisor Prof. DSc Ivanka Iordanova, Sofia, 2009 (scientific consultant)

Reviewer

J Orthop Res, Arch Orthop Trauma Surg, BMT Biomed Eng, J Orthop Trauma, eCM, Clin Biomech, BMC Musculoskeletal Disorders, J Forensic Biomech, Int J Orthop, Medicine, Engineering Failure Analysis

Editorial Board Member

International Journal of Orthopaedics (Editorial Board Member)
Medicine (Academic Editor)
J Orthop Trauma (Associate Editor)

Guest, invited, faculty lectures and presentations

B.Gueorguiev, *AO translational research. Development of orthopedic implants assisted by computer simulations. Smart orthopedic implants – applications for better bone fracture healing*, Technical University Vienna, Vienna, Austria, 24 November 2015

B.Gueorguiev, *Development of orthopedic implants assisted by computer simulations*, Technical University Varna, Varna, Bulgaria, 20 November 2015

B.Gueorguiev, *Smart orthopedic implants – applications for better bone fracture healing*, Technical University Varna, Varna, Bulgaria, 20 November 2015

B.Gueorguiev, *Non unions – just a biomechanical problem?* Invited lecture, Symposium 'Non unions', AOTrauma Europe, DKOU, Berlin, Germany, 20-23 October (2015)

B.Gueorguiev, *Simulationsgestützte Entwicklung von Implantaten*, Invited lecture, Swiss Medtech Expo – Innovation Symposium 'Mobilität schaffen – Innere und äussere Behandlungsstrategien am Bewegungsapparat', Luzern, Schweiz, 15 September (2015)

B.Gueorguiev, *Vor- und Nachteile von Cerclagen in der Osteosynthese*, AO-Kurs 'Zugangswege und Osteosynthesen', Graz, Österreich, 8 Februar 2015

B.Gueorguiev, *Theoretische und experimentelle Überlegungen zu Augmentationstechniken*, AO-Kurs 'Zugangswege und Osteosynthesen', Graz, Österreich, 8 Februar 2015

B.Gueorguiev, *Cerclage wiring: what to use, when and how*, AOTrauma Masters Course 'Current concepts – Complications – Periprosthetic fractures', Davos, Switzerland, 9 December 2014

B.Gueorguiev, *Biomechanics of bone fracture fixation and treatment of joint disorders*, Jubilee International Conference '20 Years Kinesitherapy', South West University 'Neofit Rilski', Blagoevgrad, Bulgaria, 30 October-1 November (2014) invited podium presentation

B.Gueorguiev, M.Lenz, S.M.Perren, R.G.Richards, A.Fernandez dell'Occa, D.Höntzsch, M.Windolf, *Benefit and harm of cerclages for osteosynthesis augmentation*, 7th World Congress of Biomechanics (WCB), Boston, USA, 6-11 July (2014) invited podium presentation

B.Gueorguiev, *Biomechanical treatment principles of human joint disorders*, Technical University Varna, Varna, Bulgaria, 19 November 2013

B.Gueorguiev, *Bone cement augmentation in osteoporotic bone. State of the art research*, Technical University Varna, Varna, Bulgaria, 19 November 2013

B.Gueorguiev, *Biomechanics of bone fracture fixation. Metal implants and techniques*, Technical University Varna, Varna, Bulgaria, 24 April 2013

B.Gueorguiev, *Metals, ceramics and polymers as biomaterials in medicine. Focus on traumatology, orthopedics, dentistry*, Technical University Varna, Varna, Bulgaria, 24 April 2013

Organisation congresses

Leitung Session Biomechanik, in Kooperation mit DGfB, Moderation – Zusammenfassung, DKOU, Berlin, Germany, 20-23 October (2015)

Session Panel at Second AOTrauma Asia Pacific Scientific Congress & TK Experts Symposium, Session 'Bony Anatomy and Implant Development & Paediatric Fractures', Seoul, S.Korea, 16-17 May (2014)