

Presentations and Talks

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200. Boris Jeremić. Assessing and Increasing Resilience of Nuclear Energy Facilities for Dynamic, Seismic Loads. DOE-NRC Natural Phenomena Hazards Meeting, Rockville. MD, 29-30 October 2024.[\(PDF\)](#)
199. Boris Jeremić. Assessing and Increasing Resilience of Soil-Structure Systems for Seismic Loads. International Workshop Computational Dynamic Soil-Structure Interaction (CompDSSI), Assisi, Italy, (zoom presentation), 11-13 September 2024.[\(PDF\)](#)
198. Boris Jeremić. Energy Balance for Static and Dynamic Loads on Soil-Structure Interacting Systems. WCEE, 18th World Conference on Earthquake Engineering, Milano, Italy 30 June - 05 July 2024.[\(PDF\)](#)
197. Boris Jeremić. Stress Test Motions for Soil-Structure Systems. WCEE, 18th World Conference on Earthquake Engineering, Milano, Italy 30 June - 05 July 2024.[\(PDF\)](#)
196. Boris Jeremić. Verification & Validation (V&V) Process in Engineering Numerical Analysis. USSD, United States Society on Dams Annual Conference and Exhibition, Seattle, Washington, USA. 24-26 April, 2024.[\(PDF\)](#)
195. Boris Jeremić. SMATCH Benchmark, Cruas NPP Analysis. Structural Mechanics in Reactor Technology (SMiRT) 27 Conference, Yokohama, Japan, 03-08 March 2024.[\(PDF\)](#)
194. Boris Jeremić. Aleatory Uncertainties in Computational Earthquake Engineering. The Tenth Kwang-Hua Forum, Tongji University, Shanghai, China, 8-10 December 2023.[\(PDF\)](#)
193. Boris Jeremić. Fully Coupled FEM Analysis. Workshop on Advances in Soil Liquefaction Engineering, Tongji University, Shanghai, China, (zoom presentation), 01Nov2023.[\(PDF\)](#)
192. Boris Jeremić. Plastic Energy Dissipation for Steel Building with BRBs The Seventeenth International Conference on Civil, Structural and Environmental Engineering Computing, CIVIL-COMP 2023, Pécs, Hungary, 28-31 August 2023.[\(PDF\)](#)
191. Boris Jeremić and Chanseok Jeong. Development of Realistic Seismic Input Motions for Improving the Resilience of Infrastructures to Earthquakes. NIST/NSF 2023 Disaster Resilience Symposium, Washington DC, 23-24 August 2023.[\(PDF\)](#)
190. Boris Jeremić. Engineering Analysis Toolbox, The Real-ESSI Simulator System. The 5th South-East European Conference on Computational Mechanics (SEECM), ECCOMAS Special Interest Conference, Vrnjačka Banja, Serbia, 5-7 July 2023.[\(PDF\)](#)
189. Boris Jeremić and Han Yang. Three Dimensional, Three Component Seismic Wave Field Reconstruction from Limited Surface Measurements, 3D-Deconvolution. 9th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (CompDyn2023), Athens, Greece, 12-14 June 2023.[\(PDF\)](#)

188. Boris Jeremić. Epistemic and Aleatory Uncertainties in Numerical Analysis of Earthquake Soil Structure Interaction. NHERI Lehigh Seminar Series, zoom presentation, 11May 2023.[\(PDF\)](#)
187. Boris Jeremić, Hexiang Wang and Han Yang. Probabilistic Seismic Risk Analysis for Inelastic Soil-Structure Systems US-DOE/US-NRC, Natural Phenomena Hazards (NPH) Conference, North Bethesda, MD, USA, 18-19 October 2022.[\(PDF\)](#)
186. Boris Jeremić, Chanseok Jeong. Collaborative Research: Development of Realistic Seismic Input Motions for Improving the Resilience of Infrastructures to Earthquakes NIST/NSF 2022 Disaster Resilience Symposium, NIST, Washington DC, online meeting, 14-15 September 2022.[\(PDF\)](#)
185. Boris Jeremić, Han Yang. Full Seismic Wave Inversion in 3D for ESSI Analysis Structural Mechanics in Reactor Technology (SMiRT) 26 Conference, Potsdam/Berlin, Germany, 11-18 July 2022.[\(PDF\)](#)
184. Boris Jeremić, Hexiang Wang, Han Yang and Fangbo Wang. Time Domain, Intrusive Probabilistic Seismic Risk Analysis of Nonlinear Earthquake Soil Structure Interaction Systems Structural Mechanics in Reactor Technology (SMiRT) 26 Conference, Potsdam/Berlin, Germany, 11-18 July 2022.[\(PDF\)](#)
183. Boris Jeremić, Han Yang and Hexiang Wang. Seismic Energy Flow and Balance in Earthquake Soil Structure Interaction, ESSI Systems Structural Mechanics in Reactor Technology (SMiRT) 26 Conference, Potsdam/Berlin, Germany, 11-18 July 2022.[\(PDF\)](#)
182. Boris Jeremić. Deterministic and/or Probabilistic, Time Domain, Nonlinear, Inelastic Earthquake Soil Structure Interaction, ESSI Modeling and Simulation Structural Mechanics in Reactor Technology (SMiRT) 26 Conference, Potsdam/Berlin, Germany, 11-18 July 2022.[\(PDF\)](#)
181. Boris Jeremić. Quality Assurance of Inelastic Numerical Analysis for Soils and Structures IFNFEEES02, 2nd International Forum of NFEES on Artificial Intelligence & Disaster Prevention and Mitigation, Tianjin University, China, 01-02 July, 2022.[\(PDF\)](#)
180. Boris Jeremić, Hexiang Wang and Han Yang. Base Slab Averaging and Inelastic Effects in Soil-Structure Interaction Behavior of Mat-Slab Founded Structures, Effects on Reduction of Seismic Demand 12th National Conference on Earthquake Engineering, Salt Lake City, UT, USA, 27 June - 01 July, 2022.[\(PDF\)](#)
179. Boris Jeremić and Jerzy Salamon. Verification for Numerical Analysis of Concrete Dams. USSD Annual Conference and Exhibition, San Diego, CA, USA, 11-14 April, 2022.[\(PDF\)](#)
178. Boris Jeremić, Hexiang Wang and Han Yang. Probabilistic Seismic Risk Analysis for Inelastic Soil-Structure Systems. ASCE Lifelines Conference, UCLA, 11 Feb 2022.[\(PDF\)](#)
177. Boris Jeremić. Time Domain Nonlinear Earthquake Soil Structure Interaction Analysis. ASCE-4 Seminar, 07 December 2021.[\(PDF\)](#)
176. Boris Jeremić. Forward and Backward Uncertainty Propagation in Computational Earthquake Engineering. Tianjin University, Tianjin, China, 24 November 2021.[\(PDF\)](#)
175. Boris Jeremić. Seismic Soil Structure Interaction for Design and Assessment of Nuclear Installations. United Nations, International Atomic Energy Agency, External Events Safety Section, Extra-Budgetary Program, 15th Plenary Meeting, 05-08 October 2021.[\(PDF\)](#)
174. Boris Jeremić. Realistic Modeling and Simulation of Earthquakes, Soil, Structures and their Interaction. Duke University, Durham, NC, 13 September 2021.[\(PDF\)](#)

173. Boris Jeremić. Forward and Backward Uncertainty Propagation in Computational Earthquake Engineering 8th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (CompDyn2021), Athens, Greece, 28-30 June 2021.[\(PDF\)](#)
172. Boris Jeremić. Validation Experiments for Earthquake Soil Structure Interaction Modeling and Simulation DOE-PEER Workshop on Large Scale Shake Table Testing of SSI, 17-18 April 2021.[\(PDF\)](#)
171. Boris Jeremić. A Road Map for Seismic Analyses of Concrete Dam-Rock-Reservoir Systems USSD 2021 Annual Conference, April 2021.[\(PDF\)](#)
170. Boris Jeremić. Uncertainties in Modeling and Simulation of Earthquakes, Soils, Structures and their Interaction. University of Colorado, Boulder, student organized seminar series, 2nd April 2021.[\(PDF\)](#)
169. Boris Jeremić, and Jerzy Salamon. Road Map for Advanced Structural Analysis of Concrete Dams. ICOLD Symposium on Sustainable Development of Dams and River Basins, New Delhi, India, 24-27 February 2021.[\(PDF\)](#)
168. Boris Jeremić. Нумеричко моделовање интеракције конструкције и тла у земљотресном инжењерству: Конструкција. Numerical Modeling of Soil Structure Interaction in Earthquake Engineering: Structure. Српско Удружење за земљотресно инжењерство, СУЗИ, Serbian Association for Earthquake Engineering, SAEE, Online, zoom workshop, Davis-Belgrade, 17 September 2020.[\(PDF\)](#)
167. Boris Jeremić. Нумеричко моделовање интеракције конструкције и тла у земљотресном инжењерству: Тло. Numerical Modeling of Soil Structure Interaction in Earthquake Engineering: Soil. Српско Удружење за земљотресно инжењерство, СУЗИ, Serbian Association for Earthquake Engineering, SAEE, Online, zoom workshop, Davis-Belgrade, 17 September 2020.[\(PDF\)](#)
166. Boris Jeremić. Нумеричко моделовање интеракције конструкције и тла у земљотресном инжењерству: Земљотрес. Numerical Modeling of Soil Structure Interaction in Earthquake Engineering: Earthquake. Српско Удружење за земљотресно инжењерство, СУЗИ, Serbian Association for Earthquake Engineering, SAEE, Online, zoom workshop, Davis-Belgrade, 17 September 2020.[\(PDF\)](#)
165. Boris Jeremić. Modeling and Simulation of Static and Dynamic Behavior of Earthquake Soil Structure Systems. Macedonian Association for Geotechnical Engineers, Macedonian Association for Dams, University of Kiril and Metodi. Online, zoom presentation, Davis - Skopje, 09Jun2020 2020.[\(PDF\)](#)
164. Boris Jeremić. Нумеричка анализа интеракције тла и конструкције услед дејства земљотреса. Numerical Analysis of Interaction of Soil and Structures due to Earthquake Effects. Српско Удружење за земљотресно инжењерство, СУЗИ, Serbian Association for Earthquake Engineering, SAEE, Online, zoom presentation, Zürich-Belgrade, 23 April 2020.[\(PDF\)](#)
163. Boris Jeremić. The Real-ESSI Simulator System. Winter School, "From research to practise in geotechnical engineering", Centro Stefano Franscini, Monte Verità, Ascona, Ticino, CH, 12 - 17 January 2020.[\(PDF\)](#)
162. Boris Jeremić. Uncertainties in Modeling and Simulation of Earthquakes, Soils, Structures and their Interaction. Winter School, "From research to practise in geotechnical engineering", Centro Stefano Franscini, Monte Verità, Ascona, Ticino, CH, 12 - 17 January 2020.[\(PDF\)](#)
161. Boris Jeremić. Modeling and Simulation of Dam Foundation Reservoir System. Hydro-Québec, Montréal, Québec, Canada, 04 December 2019.[\(PDF\)](#)

160. Boris Jeremić. Guidelines for Structural Analysis of Concrete Dams. The Centre for Energy Advancement through Technological Innovation (CEATI) International Inc., Dam Safety Interest Group, General Meeting, Orange County, California, 30 September - 01 October 2019.[\(PDF\)](#)
159. Boris Jeremić. Modeling and Simulation of Earthquake Soil/Rock Structure Interaction. 15th International Benchmark Workshop on Numerical Analysis of Dams, ICOLD-BW, Politecnico di Milano, Milano, Italy, 9-11 September 2019.[\(PDF\)](#)
158. Boris Jeremić. Nuclear Installation Lifecycle: Modeling and Simulation of Design Basis and Beyond Design Basis ESSI Behavior. Structural Mechanics in Reactor Technology, SMiRT 25, Conference, Charlotte, NC, USA, 04-08 August 2019.[\(PDF\)](#)
157. Boris Jeremić. Seismic Energy Flow Calculations for Earthquake Soil Structure Interaction Systems. Structural Mechanics in Reactor Technology, SMiRT 25, Conference, Charlotte, NC, USA, 04-08 August 2019.[\(PDF\)](#)
156. Boris Jeremić. Time Domain Seismic Risk Analysis Framework for Nuclear Installations. Structural Mechanics in Reactor Technology, SMiRT 25, Conference, Charlotte, NC, USA, 04-08 August 2019.[\(PDF\)](#)
155. Boris Jeremić. Stochastic Site Response Analysis Through Uncertain Elasto-Plastic Soil. Structural Mechanics in Reactor Technology, SMiRT 25, Conference, Charlotte, NC, USA, 04-08 August 2019.[\(PDF\)](#)
154. Boris Jeremić. Stress Test Seismic Motions for Nuclear Installations. Structural Mechanics in Reactor Technology, SMiRT 25, Conference, Charlotte, NC, USA, 04-08 August 2019.[\(PDF\)](#)
153. Boris Jeremić. The Real-ESSI Simulator System. Structural Mechanics in Reactor Technology, SMiRT 25, Conference, Charlotte, NC, USA, 04-08 August 2019.[\(PDF\)](#)
152. Boris Jeremić. Modeling and Simulation of Earthquake Soil Structure Interaction. Shijiazhuang Tiedao University, Shijiazhuang, China, 16 July 2019.[\(PDF\)](#)
151. Boris Jeremić. Modeling and Simulation of Earthquake Soil Structure Interaction. University of Science and Technology Beijing Seminar Series, Beijing, China, 14 July 2019.[\(PDF\)](#)
150. Boris Jeremić. Seismic Risk Analysis: Time Domain, Intrusive, Stochastic Elastic Plastic Finite Element Method. 7th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (CompDyn2019), Rhodes Island, Greece, 24-26 June 2019.[\(PDF\)](#)
149. Boris Jeremić. Modeling and Simulation Earthquake Soil Structure Interaction. United States Society on Dams, Congress, Chicago IL, USA, 9-11 April, 2019.[\(PDF\)](#)
148. Boris Jeremić. Computational Modeling and Simulation of Earthquake Soil Structure Interaction Behavior of Nuclear Installations. CNERDWG Meeting, Argonne National Laboratory, Lemont, IL, USA, 9-10 April, 2019.[\(PDF\)](#)
147. Boris Jeremić. The Real-ESSI Simulator System: Status Report. USA-Japan Collaboration Meeting, Lawrence Berkeley National Laboratory, Berkeley, CA, USA, 14 March, 2019.[\(PDF\)](#)
146. Boris Jeremić. Realistic Modeling and Simulation of Earthquakes, Soils, Structures and their Interaction. Eighth Kwang-Hua Forum on Innovations and Implementations in Earthquake Engineering Research Area, State Key Laboratory of Disaster Prevention in Civil Engineering, International Laboratory for Earthquake Engineering (ILEE), Tongji University, Shanghai, China, 14-16 December, 2018.[\(PDF\)](#)

145. Boris Jeremić. Modeling and Simulation of Static and Dynamic Behavior of Soil Structure Systems. Short Course on Computer Methods and Constitutive Modeling in Geomechanics, with Prof. C.S. Desai and Prof. K. El-Hoseiny, Second GeoMEast Conference, Cairo, Egypt 24-28 November, 2018.[\(PDF\)](#)
144. Boris Jeremić. Beneficial and Detrimental Effects of Earthquake Soil Structure Interaction. Second GeoMEast Conference, Cairo, Egypt 24-28 November, 2018.[\(PDF\)](#)
143. Boris Jeremić. Modeling and Simulation of Earthquake Soil Structure Interaction for Nuclear Installations. DOE/NRC Natural Phenomena Hazard Meeting, North Bethesda, MD, U.S.A. 23-24 October, 2018.[\(PDF\)](#)
142. Boris Jeremić. Modeling and Simulation of Static and Dynamic Behavior of Soil Structure Systems. United States Bureau of Reclamation, Denver, CO, U.S.A. 22 August, 2018.[\(PDF\)](#)
141. Boris Jeremić. High Fidelity Modeling and Simulation of Earthquake Soil Structure Interaction Effects for Infrastructure Objects. World Congress on Computational Mechanics, New York, NY, U.S.A. 22-27 July, 2018.[\(PDF\)](#)
140. Boris Jeremić. 3D Nonlinear Earthquake Soil Structure Interactions for Nuclear Installations. 11th National Conference on Earthquake Engineering, Los Angeles, CA, U.S.A. 25-29 June, 2018.[\(PDF\)](#)
139. Boris Jeremić. MS-ESSI for Professional Practice. Eidgenössischen Nuklearsicherheitsinspektorats (ENSI), Inspection fédérale de la sécurité nucléaire (IFSN), Ispettorato federale della sicurezza nucleare (IFSN), Technical Seminar Series, Brugg, Switzerland, 18 May, 2018.[\(PDF\)](#)
138. Boris Jeremić. Modeling and Simulation of Earthquakes, Soils, Structures and their Interaction. Eidgenössische Technische Hochschule (ETH) Zürich, Seminar Series. Zurich, Switzerland, 17 May, 2018.[\(PDF\)](#)
137. Boris Jeremić. Modeling and Simulation of Earthquakes, Soils, Structures and their Interaction. Workshop on Best Practices in Physics-Based Fault Rupture Models for Seismic Hazard Assessment of Nuclear Installations (Best-PSHANI), Château de Cadarache, France, 16 May, 2018.[\(PDF\)](#)
136. Boris Jeremić. Modeling and Simulation of Earthquakes, and Soils, and Structures and their Interaction using Real ESSI Simulator System. ARUP, San Francisco, California, USA, 15 February, 2018.[\(PDF\)](#)
135. Boris Jeremić. Hierarchical, High Fidelity Modeling and Simulation of Static and Dynamic Behaviour of Soil Structure Systems. Ørsted Energy, Copenhagen, Denmark, 15 January, 2018.[\(PDF\)](#)
134. Boris Jeremić. Realistic Modeling and Simulation of Earthquake Soil Structure Interaction. United Nations, International Atomic Energy Agency, Department of Nuclear Safety and Security, Division of Nuclear Installation, External Events Safety Section, Vienna, Austria, 12 January, 2018.[\(PDF\)](#)
133. Boris Jeremić. Real ESSI Simulator, Inelastic Modeling and Simulations for Soils, Contacts and Structures. Real ESSI Short Course, San Francisco, CA, USA, 12-14 December 2017. (Available to participants only)
132. Boris Jeremić. Real ESSI Simulator, Seismic Ground Motions. Real ESSI Short Course, San Francisco, CA, USA, 12-14 December 2017. (Available to participants only)
131. Boris Jeremić. Real ESSI Simulator, Intro, Setup and Staged Nonlinear Modeling. Real ESSI Short Course, San Francisco, CA, USA, 12-14 December 2017. (Available to participants only)
130. Boris Jeremić. Soil Structure Interaction – Case Studies, Models and Results. UN-IAEA Mission to SNSA, Ljubljana, Slovenia, 14-16 November, 2017. (Available from the UN-IAEA)

129. Boris Jeremić. Soil Structure Interaction – Frequency and Time Domain Analysis. UN-IAEA Mission to SNSA, Ljubljana, Slovenia, 14-16 November, 2017. (Available from the UN-IAEA)
128. Boris Jeremić. Soil Structure Interaction – Site Response Analysis. UN-IAEA Mission to SNSA, Ljubljana, Slovenia, 14-16 November, 2017. (Available from the UN-IAEA)
127. Boris Jeremić. 3D vs 1D vs 3x1D Ground Motions and the Earthquake Soil Structure Interaction. Structural Mechanics in Reactor Technology (SMiRT) 24 Conference, Busan, Republic of Korea, 20-25 August, 2017.[\(PDF\)](#)
126. Boris Jeremić. Nonlinear effects in Earthquake Soil Structure Interaction of Nuclear Power Plants. Structural Mechanics in Reactor Technology (SMiRT) 24 Conference, Busan, Republic of Korea, 20-25 August, 2017.[\(PDF\)](#)
125. Boris Jeremić. Nonlinear Earthquake Soil Structure Interaction Analysis for Small Modular Reactors. Structural Mechanics in Reactor Technology (SMiRT) 24 Conference, Busan, Republic of Korea, 20-25 August, 2017.[\(PDF\)](#)
124. Boris Jeremić. Verification for the Real ESSI Simulator. Structural Mechanics in Reactor Technology (SMiRT) 24 Conference, Busan, Republic of Korea, 20-25 August, 2017.[\(PDF\)](#)
123. Boris Jeremić. Stochastic Elastic-Plastic Finite Element Method: Recent Advances and Developments. 4th South-East European Conference on Computational Mechanics, ECCOMAS Special Interest Conference, 3-5 July 2017.[\(PDF\)](#)
122. Boris Jeremić. Моделовање еласто-пластичних система применом теорије вероватноћа. (Modeling of elastic-plastic systems using theory of probability). Институт за водопривреду ”Јарослав Черни” Београд, Србија, Institute for Water Resources, ”Jaroslav Černi” Belgrade, Serbia, 29th June 2017.[\(PDF\)](#)
121. Boris Jeremić. Site Specific Dynamics of Structures: From Seismic Source to the Safety of Occupants and Content (Plenary Lecture). 6th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (CompDyn2017), Rhodes Island, Greece, 14-17 June 2017.[\(PDF\)](#)
120. Boris Jeremić. Advancement in Earthquake Soil Structure Interaction (ESSI) Modeling and Simulation. 2017 Pacific Rim Forum, Earthquake Resilience of Nuclear Facilities, University of California, Berkeley, California, 24th January 2017.[\(PDF\)](#)
119. Boris Jeremić. Динамика тла и конструкције при земљотресима, непоуздани модели, непоуздани параметри и теорија вероватноћа, (Dynamics of Soils and Structures During Earthquakes, Uncertain Models, Uncertain Parameters and Theory of Probability). Институт за Испитивање Материјала Србије и Грађевински Факултет Универзитета у Београду, Београд, Србија, 16-ти Децембар, 2016, Institute for Testing of Materials, and Civil Engineering Faculty of the University of Belgrade, Belgrade, Serbia, 16th December 2016.[\(PDF\)](#)
118. Boris Jeremić. On Modeling Uncertainty in Earthquake Soil Structure Interaction Analysis. Seventh Kwang-Hua Forum on Innovations and Implementations in Earthquake Engineering Research Area, State Key Laboratory of Disaster Prevention in Civil Engineering, International Laboratory for Earthquake Engineering (ILEE), Tongji University, Shanghai, China, 9 December, 2016.[\(PDF\)](#)
117. Boris Jeremić. The Real ESSI Simulator. US-DOE, Office of Nuclear Energy, Washington DC, 8 June, 2016. (not for public distribution)

116. Boris Jeremić. Real ESSI Simulator, High Performance Computing Issues. US-DOE, Office of Science, Washington DC, 12 May, 2016. (not for public distribution)
115. Boris Jeremić. Development of Analytical Tools for Soil-Structure Interaction Analysis. Canadian Nuclear Safety Commission (CNSC), Ottawa, Ontario, Canada, 04 March, 2016. (not for public distribution)
114. Boris Jeremić. Inelastic Earthquake Soil Structure Interaction Modeling and Simulations at UCD and LBNL. IAEA, UN, Vienna. Austria, 24 February, 2016. (not for public distribution)
113. Boris Jeremić. Modelling and Simulation Uncertainty. Computational Mechanics Working Group Seminar Series, University of California, Davis, California, 16 February, 2016.(PDF)
112. Boris Jeremić. Uncertainties in Modelling and Simulation of Earthquake Soils Structures Interaction. Earthquake Engineering Institute, University of Tokyo, Tokyo, Japan, 25 January, 2016.(PDF)
111. Boris Jeremić. Modelling and Simulation of Static and Dynamic Soils Structures Interaction Under Uncertainty. Technical Seminar Series, Géodynamique et Structure, Bagnaux, France, 23 November 2015.(PDF)
110. Boris Jeremić. Wavelet Based Synthetic Earthquake Sources for Path and Soil Structure Interaction Modeling: Stress Testing of Nuclear Power Plant. Workshop on Best Practices in Physics-Based Fault Rupture Models for Seismic Hazard Assessment of Nuclear Installations (BestPSHANI),8 IAEA Headquarters, Vienna, Austria, 18-20 November 2015.(PDF)
109. Boris Jeremić. Modelling and Simulation of Earthquake Soils Structures Interaction Under Uncertainty. International Scientific Collaboration Meeting, Southwest Jiaotong University, Chengdu, China, 12-13 October 2015.(PDF)
108. Boris Jeremić. Non-linear Soil-Structure Interaction: Benefits and Issues (Special Session on Nonlinear Soil Structure Interaction Behavior of NPPs). Structural Mechanics in Reactor Technology (SMiRT) 23 Conference, Manchester, UK, 10-14 August, 2015.(PDF)
107. Boris Jeremić. Use of Nonlinear, Time Domain Analysis for Design. Structural Mechanics in Reactor Technology (SMiRT) 23 Conference, Manchester, UK, 10-14 August, 2015.(PDF)
106. Boris Jeremić. Nonlinear Simulations for Soil-Structure Interaction and Performance-Based Design. 2015 UC Pacific Rim Forum, Earthquake Resilience of Nuclear Facilities, University of California, Berkeley, California, 8-9 June 2015.(PDF)
105. Boris Jeremić. Dynamics of Soils and Structures under Uncertainty. 5th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (CompDyn2015), Crete Island, Greece, 25-27 May 2015.(PDF)
104. Boris Jeremić. Earthquake Soil Structure Interaction Modeling and Simulation. Southern California Earthquake Center (SCEC), Workshop on Integration of 3D Nonlinear Site Effects in Physics-Based Ground Motion Simulations, SCEC Headquarters, University of Southern California, Los Angeles, CA, U.S.A. 5th May 2015.(PDF)
103. Boris Jeremić. Real ESSI Modeling and Simulation: Reduction of Modeling Uncertainty. Civil Nuclear Energy Research and Development Working Group, USA-Japan (CNerdWG), meeting, Argonne National Laboratory, Lemont IL. U.S.A. 27th-29th January, 2015.(PDF)
102. Boris Jeremić. Real Earthquake Soil Structure Interaction (Real ESSI) Modeling and Simulation. PRENO-LIN workshop, Nice France, 15th-17th December, 2014.(PDF)

101. Boris Jeremić. Nonlinear Time Domain Modeling and Simulation of Surface and Embedded NPPs. Department of Energy, Natural Phenomena Hazard Meeting, Germantown, MD, USA, October 21st-22nd 2014.[\(PDF\)](#)
100. Boris Jeremić. High Fidelity Seismic Modeling and Simulation of Nuclear Facilities. Department of Energy, presentation to the Secretary of Energy, Washington D.C., USA, September 15th, 2014.[\(PDF\)](#)
99. Boris Jeremić. Civil and Structural Engineering Gaps in Small Modular Reactor Designs. ASME SMR 2014 Symposium, Washington, D.C. USA, April 15th-17th, 2014.[\(PDF\)](#)
98. Boris Jeremić. PRENOLIN Meeting Presentation. PRENOLIN 3rd Workshop, Nice, France, April 7th-8th, 2014.[\(PDF\)](#)
97. Boris Jeremić. INL SSI Steering Committee Meeting. Idaho Falls, Idaho, USA, January 15th-16th, 2014.[\(PDF\)](#)
96. Boris Jeremić. Earthquake Soil Structure Interaction (ESSI) Modeling and Simulation. Caltrans Seminar Series, Sacramento, California, USA, December 4th 2013. 2013.[\(PDF\)](#)
95. Boris Jeremić. PRENOLIN Meeting Presentation. PRENOLIN 2nd Workshop, Nice, France, November 4th-5th 2013. 2013.[\(PDF\)](#)
94. Boris Jeremić. ESSI Simulator Program, Current Status. Structural Mechanics in Reactor Technology (SMiRT) 22 Conference, San Francisco, California, U.S.A. August 18th - 23rd, 2013.[\(PDF\)](#)
93. Boris Jeremić. Earthquake Soil Structure Interaction for Nuclear Power Plants, Modeling and Computational Issues. CompDyn2013, 4th International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Island of Kos, Greece, June 12th – 14th, 2013.[\(PDF\)](#)
92. Boris Jeremić. On Earthquake Soil Structure Interaction Modeling and Simulation. National Technical University of Athens Seminar Series, Athens, Greece, June 12th, 2013.[\(PDF\)](#)
91. Boris Jeremić. Select Aspects of Earthquake Soil Structure Interaction Modeling and Simulation. UCD GGSS Seminar Series, Davis, California, May 23rd. 2013.[\(PDF\)](#)
90. Boris Jeremić. Time Domain Nonlinear Earthquake Soil/Rock Structure Interaction Modeling and Simulation. ASCE-4 Meeting, Sand Diego, California, April 5th. 2013.[\(PDF\)](#)
89. Boris Jeremić. Challenges and Tools for Non-Linear SSI Analysis. Workshop on Analytical Methods for Seismic SSI Analysis PEER, UC Berkeley, Berkeley, California, January 9-10, 2013.[\(PDF\)](#)
88. Boris Jeremić. Nonlinear Soil Modeling for Seismic NPP Applications. Lawrence Berkeley National Laboratory, Nuclear Waste Program Seminar Series, Friday, December 14, 2012.[\(PDF\)](#)
87. Boris Jeremić. Aspects of Deterministic and Probabilistic Modeling and Simulation in Earthquake Engineering. Lawrence Berkeley National Laboratory, Earth Sciences Division Seminar Series, Friday, December 14, 2012.[\(PDF\)](#)
86. Boris Jeremić. The NRC ESSI Simulator. International Experts' Meeting on Protection against Extreme Earthquakes and Tsunamis in the Light of the Accident at the Fukushima Daiichi Nuclear Power Plant, IAEA, Vienna, Austria, September 4-7, 2012.[\(PDF\)](#)
85. Boris Jeremić. Modeling and Simulation of Earthquake Soil Structure Interaction for Risk Informed Decision Making in Nuclear Power Industry. Idaho National Laboratory, Idaho Falls, Idaho, July 16-17, 2012.[\(PDF\)](#)

84. Boris Jeremić, Nima Tafazzoli, Nebojša Orbović and Andrei Blahoianu. Amplification of Seismic Input due to 1D, 2D and 3D effects, and their Importance for NPP Structures. 21st Structural Mechanics in Reactor Technology (SMiRT) Conference, New Delhi, India, November 6-11, 2011.[\(PDF\)](#)
83. Boris Jeremić, Nima Tafazzoli, Nebojša Orbović and Andrei Blahoianu. 3D Analysis of the Influence of Varying Rock/Soil Profiles on Seismic NPP Response. 21st Structural Mechanics in Reactor Technology (SMiRT) Conference, New Delhi, India, November 6-11, 2011.[\(PDF\)](#)
82. Boris Jeremić, Annie Kammerer, Nima Tafazzoli and Babak Kamrani. The Nonlinear Time-Domain Modeling of Earthquake Soil Structure Interaction for Nuclear Power Plants: Nonlinear Contact Between Foundation and Rock. 21st Structural Mechanics in Reactor Technology (SMiRT) Conference, New Delhi, India, November 6-11, 2011.[\(PDF\)](#)
81. Boris Jeremić, Annie Kammerer, Nima Tafazzoli and Babak Kamrani. The NRC ESSI Simulator. 21st Structural Mechanics in Reactor Technology (SMiRT) Conference, New Delhi, India, November 6-11, 2011.[\(PDF\)](#)
80. Boris Jeremić, Kallol Sett. Stochastic Elastic-Plastic Finite Element Method for Performance Risk Simulations. 11th International Conference on Applications of Statistics and Probability in Civil Engineering. Zürich, Switzerland, August 1-4, 2011.[\(PDF\)](#)
79. Boris Jeremić, Panagiota Tasiopoulou, Mahdi Taiebat, Nima Tafazzoli, Mario Martinelli. Verification Procedures for Simulation of Fully Coupled Behavior of Porous Media. 11th US National Congress on Computational Mechanics, (USNCCM11), Minneapolis, Minnesota, U.S.A., July 25-28, 2011.[\(PDF\)](#)
78. Boris Jeremić. High Performance, High Fidelity Modeling and Simulation of Earthquake-Soil-Structure Interaction for Nuclear Power Industry Quake Summit 2011, NEES & MCEER Annual Meeting, Buffalo, NY, June 9-11, 2011.[\(PDF\)](#)
77. Boris Jeremić. Assessment of Seismic Input and Soil Structure Interaction for Deeply Embedded, Large Foundations. Canadian Nuclear Safety Commission (CNSC), Ottawa, Ontario, Canada, March 7th, 2011.
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76. Boris Jeremić. Stochastic Elastic-Plastic Finite Element Method. Intel Corporation, Structural TCT Lecture Series (webinar), California, Arizona, Oregon (U.S.A); Malaysia; 18 October, 2010.[\(PDF\)](#)
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74. Boris Jeremić. Factors of Safety for 3D vs 2D for Curved Section of the Wolf Creek Dam. Wolf Creek Dam Foundation Remediation Project. Wolf Creek Dam site, Kentucky, 19 – 21 April 2010, (not for public distribution)
73. Boris Jeremić. Simulations in Geomechanics: The Issue of Uncertainty. University of Tennessee, Department of Civil and Environmental Engineering Seminar Series, 26 March 2010.[\(PDF\)](#)
72. Boris Jeremić. Real-Time Monitoring for Soil-Structure Systems Under Uncertainty. Real Time Monitoring Meeting, Dubai, United Arab Emirates, 29 January - 2 February 2010. (not for public distribution)
71. Boris Jeremić. Continuum Modeling of Intact Rock. Workshop on Ground Shock in Faulted Media, McLean, Virginia, 12-15 January 2010. (not for public distribution)

70. Boris Jeremić. High Fidelity Modeling and Simulation of SFS Interaction: Energy Dissipation by Design. International Workshop on Soil-Foundation-Structure Interaction, University of Auckland, New Zealand, 26-27 November 2009.[\(PDF\)](#)
69. Boris Jeremić, Kallol Sett, Lev Kavvas and Suzana Koprivica. Решење еласто-пластичног проблема у простору вероватноћа и примена на практичне проблеме (Solution for the probabilistic elastic-plastic problem and its application to practical problems) UNION University, Belgrade, Serbia, 29th June, 2009.[\(PDF\)](#)
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65. Boris Jeremić. Verification and Validation in Computational Geomechanics, GheoMat: Deformation and Failure of Geomaterials, a Multidisciplinary Scientific Workshop, Masseria Salamina, Brindisi, Italy, 14-19 June 2009.[\(PDF\)](#)
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61. Boris Jeremić. Earthquake-Soil-Structure Systems, 2008 Association of Pacific Rim Universities Symposium: Multi-Hazard Around the Pacific Rim, Davis, California, August 21st-22nd, 2008.[\(PDF\)](#)
60. Boris Jeremić. On Probabilistic Yielding of (Geo-)Materials, Eight World Congress on Computational Mechanics, Venice, Italy, June 30th – July 4th, 2008.[\(PDF\)](#)
59. Boris Jeremić. Soil Uncertainty and Seismic Ground Motion Fourth Geotechnical Earthquake Engineering and Soil Dynamics Conference, Sacramento, California, May 19-22st, 2008.[\(PDF\)](#)
58. Boris Jeremić. On Uncertain Seismic Wave Propagation, First International Conference of the Engineering Mechanics Institute, University of Minnesota, Minneapolis, Minnesota, May 19-21st, 2008.[\(PDF\)](#)
57. Boris Jeremić. Uncertain Elasto-Plasticity, University of Southern California Seminar Series, December 12th, 2007.[\(PDF\)](#)
56. Boris Jeremić. On Computational Simulations and Predictions, UC Davis Geotechnical Seminar Series, November 1st, 2007.[\(PDF\)](#)

55. Boris Jeremić. Seismic Wave Propagation in Stochastic Soils, 4ICEGE, Fourth International Conference on Earthquake and Geotechnical Engineering, Thessaloniki, Greece 25–28 June, 2007.[\(PDF\)](#)
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52. Boris Jeremić. Numerical Predictions of Soil–Foundation–Structure Interaction. Caltrans Geotechnical Services Educational Seminar Series, Sacramento, California, April 5, 2007.[\(PDF\)](#)
51. Boris Jeremić. Benefits and Detriments of Soil Foundation Structure Interaction: Simulation Platform and Examples. 4th US–Japan Workshop on SSI, Tsukuba, Japan, March 28–30 2007.[\(PDF\)](#)
50. Boris Jeremić. Benefits and Detriments of Soil–Foundation–Structure Interaction. GeoDenver 2007, Geo–Institute Annual Conference, Denver, Colorado, February 19–21, 2007.[\(PDF\)](#)
49. Boris Jeremić. Modeling and Simulations of Liquefied Soils. GeoDenver 2007, Geo–Institute Annual Conference, Denver, Colorado, February 19–21, 2007.[\(PDF\)](#)
48. Boris Jeremić. UCD CompGeoMech Contributions to OpenSees: Deliverables. PEER Annual Meeting, San Francisco, California, January 26–27 2007.[\(PDF\)](#)
47. Boris Jeremić. Piles in Liquefied Soils. PEER Annual Meeting, San Francisco, California, January 26–27 2007.[\(PDF\)](#)
46. Boris Jeremić. High Performance Computing for Fast Hybrid Simulations. CU–NEES 2006 FHT Workshop, Boulder, Colorado, Nov. 2–3 2006.[\(PDF\)](#)
45. Boris Jeremić. The Role of Material Variability and Uncertainty in Elastic–Plastic Finite Element Simulations. First South–East European Conference on Computational Mechanics (SEECM 06), Kragujevac, Serbia, 28–30 June 2006.[\(PDF\)](#)
44. Boris Jeremić. HPC for NEES: Plastic Domain Decomposition Method. NEES Annual Meeting, Washington, District of Columbia, June 21–23, 2006.[\(PDF\)](#)
43. Boris Jeremić. Uncertain Material Parameters and the Stress–Strain Response. Second Japan–U.S. Workshop on Testing, Modeling and Simulation in Geomechanics, Kyoto, Japan, September 8–11, 2005.[\(PDF\)](#)
42. Boris Jeremić. On Uncertainty of Elasto–Plastic Simulations Universitat Politècnica de Catalunya, Barcelona, Spain, June 2005.[\(PDF\)](#)
41. Boris Jeremić. Topics in Contemporary Computational Geomechanics. A 4 day short course. Topics covered included: Large deformation Hyperelasto–Plasticity for Geomaterials, Parallel processing in computational geomechanics, Numerical simulations of coupled behavior for Geomaterials undergoing small and large deformations, Probabilistic approach to the theory of elasto–plasticity. University of Kragujevac, Kragujevac, Serbia and Montenegro, June 2005.
40. Boris Jeremić. Probabilistic Elasto–Plasticity. 25th Yugoslav Congress on Theoretical and Applied Mechanics, Novi Sad, Serbia and Montenegro, June 2005.[\(PDF\)](#)

39. Boris Jeremić. Soil–Foundation–Structure Interaction Simulations: Static and Dynamic Issues. University of California at Los Angeles Seminar Series, UCLA, May 2004.[\(PDF\)](#)
38. Boris Jeremić. A Brief Overview of the NEESgrid Simulation Platform OpenSees: Application to the Soil–Foundation–Structure Interaction Problems. Third Joint United States-Japan Workshop on Soil-Structure Interaction, Menlo Park, California, March 29-30, 2004.[\(PDF\)](#)
37. Boris Jeremić. I-880 Bridge Testbed Simulations: Soil–Foundation–Structure Interaction Issues. PEER Annual Meeting, Palm Springs, California, February 20-21, 2004.[\(PDF\)](#)
36. Boris Jeremić. Enabling Simulation and Information Technologies Solutions Schemes and Challenges for Very large Models. PEER Annual Meeting, Palm Springs, California, February 20-21, 2004.[\(PDF\)](#)
35. Boris Jeremić. Soil–Foundation–Structure Interaction Simulations and OpenSees. OpenSees Users Workshop, Richmond, California, January 2004.[\(PDF\)](#)
34. Boris Jeremić. Интеракција конструкције и тла у току земљотреса: нумеричка анализа. (Structure-soil interaction during earthquakes: numerical analysis) Грађевински Факултет Универзитета у Београду, Децембар, 2003(Civil Engineering Faculty of the University of Belgrade, December 2003).[\(PDF\)](#)
33. Boris Jeremić, COTS (Commodity off the shelf) Clusters. International Workshop on High Performance Computing in Finite Element Analysis, University of Manchester, U.K, 1st - 5th September 2003.[\(PDF\)](#)
32. Boris Jeremić, The Plastic Domain Decomposition Method in Parallel Computational Geomechanics. International Workshop on High Performance Computing in Finite Element Analysis, University of Manchester, U.K. 1st - 5th September 2003.[\(PDF\)](#)
31. Boris Jeremić. Geomechanics Simulations Using OpenSees Platform. OpenSees Users Workshop, August 2003, Richmond, California.
30. Boris Jeremić. Simulation of Local Inelastic Behavior in Large Scale Dynamics Analysis. Seventh U.S. National Congress on Computational Mechanics, July 27-31, 2003, Albuquerque, New Mexico.
29. Boris Jeremić. Soil–Structure–Interaction in Liquefied Grounds and Countermeasures: Lessons from Numerical Studies. 2003 PEER Annual Meeting, Palm Springs, California.
28. Boris Jeremić. Geomechanics Simulations Using OpenSees Platform. OpenSees Users Workshop, August 2002, Richmond, California.
27. Boris Jeremić, Recent Developments in Computational Modeling in Geomechanics, Invited Keynote Presentation. Fifth World Congress on Computational Mechanics, WCCM V, July 2002, Vienna, Austria.
26. Boris Jeremić, Computational Challenges for Seismic Design of Bridges, Invited Presentation. Scientific Computing Seminars Series, National Energy Research Scientific Computing Center, Lawrence Berkeley National Laboratory, August 2002.
25. Boris Jeremić, Earthquake Engineering Simulation Grid, Invited Presentation. Structural Engineering Seminar Series, March 2002, University of California at San Diego, La Jolla, California.
24. Boris Jeremić, Challenges in Numerically Simulating Seismic Behavior of Constructed Facilities, Invited Presentation. Bay Area Scientific Computing Day 2002, March 2002, Sandia National Laboratories, Livermore, California.

23. Boris Jeremić, Recent Developments in Computer Simulations and Visualization for Geotechnical Earthquake Engineering Problems, Invited Presentation. International Workshop on Earthquake Simulation in Geotechnical Engineering, November 2001, The George S. Dively Center, Case Western Reserve University, Cleveland, Ohio.
22. Boris Jeremić. Geotechnical applications with OpenSees OpenSees Users Workshop, August 2001, Richmond, California.
21. Boris Jeremić. Geotechnical Elements and Material Models OpenSees Developers Workshop, August 2001, Richmond, California.
20. Boris Jeremić. Large Deformation Coupled Formulation for Liquefaction Analysis Sixth U.S. National Congress On Computational Mechanics, August, 2001 Dearborn, Michigan.
19. Boris Jeremić. Dynamic Behavior of Pile Group Foundations During Strong Earthquake Events, Invited Presentation. The 2001 Joint Summer Meeting of American Society of Mechanical Engineers (ASME) American Society of Civil Engineers (ASCE) and Society of Engineering Science (SES), San Diego, July, 2001.
18. Boris Jeremić. Finite Element Methods for 3D Slope Stability Analysis. GeoDenver 2000, Geo Institute Annual Conference, Denver, Colorado, August, 2000.
17. Boris Jeremić. Modeling of Continuous Localization of Deformation. 13th ASCE Engineering Mechanics Specialty Conference, The Johns Hopkins University, Baltimore, MD, USA June, 1999.
16. Boris Jeremić. Finite Element Modeling of Failure in Geotechnical Engineering, Invited Presentation. University of California, Davis, California, April 1999.
15. Boris Jeremić. Elasto–Plasticity and the Finite Element Method: Mathematical Formulation. Presented at the Department of Mathematics and Computer Sciences Seminar Series at Clarkson University, Potsdam, New York, September 1998.
14. Boris Jeremić, Kenneth Runesson, and Stein Sture. Large deformation constitutive integration algorithm. Presented at the 12th ASCE Engineering Mechanics Conference, La Jolla, California, May 1998.
13. Boris Jeremić, Kenneth Runesson, and Stein Sture. Coaxiality of elastic and plastic strain tensors in large deformations. Presented at the Thirteen U.S. National Congress of Applied Mechanics, Gainesville, Florida, June, 1998.
12. Boris Jeremić. Finite Element Modeling of Large Deformation Elasto-plastic Problems in Geotechnics, Invited Presentation. University of California, Davis, California, April 1998.
11. Boris Jeremić. Finite Deformation Elasto-plastic Problems in Solid Mechanics of Pressure Sensitive Materials. Presented at the Department of Mechanical and Aeronautical Engineering Seminar Series at Clarkson University, Potsdam, New York, April 1998.
10. Boris Jeremić and Stein Sture. Globally convergent modification of the implicit integration schemes in soil elastoplasticity. The 1997 Joint Summer Meeting of the American Society of Mechanical Engineers, American Society of Civil Engineers and the Society of Engineering Science, Northwestern University, Evanston, Illinois, July, 1997.

9. Boris Jeremić, Kenneth Runesson, and Stein Sture. Invited Presentation: Elastoplastic analysis of pressure sensitive materials subjected to large deformations. Presented at the *1997 Joint Summer Meeting of the American Society of Mechanical Engineers, American Society of Civil Engineers and the Society of Engineering Science*, Northwestern University, Evanston, Illinois, July, 1997.
8. Boris Jeremić. Consistent Computations in Elasto–Plasticity of Geomaterials, Invited Presentation. University of Minnesota, Minneapolis, Minnesota, April 1997.
7. Boris Jeremić. Consistent Computations in Elasto–Plasticity of Geomaterials, Invited Presentation. Clarkson University, Potsdam, New York, April 1997.
6. Boris Jeremić. Consistent Computations in Elasto–Plasticity of Geomaterials, Invited Presentation. University of Texas, Austin, Texas, March 1997.
5. Boris Jeremić and Stein Sture. Refined solution procedures for finite element analysis in geotechnics. Presented at the CAMM seminar 96/2, Center for Acoustics, Mechanics and Materials, University of Colorado, October 1996.
4. Boris Jeremić. Object oriented numerical computations: Applications in continuum mechanics. Presented at the Geotechnical Engineering seminar series, University of Colorado at Boulder, October 1996.
3. Boris Jeremić and Stein Sture. Refined finite element analysis of geomaterials. Presented at 11th ASCE Engineering Mechanics Conference, Fort Lauderdale, Florida, May 1996.
2. Boris Jeremić, Dunja Perić, Teng-Fung Yang, Stein Sture, Hon-Yim Ko, and Y. Atsushi. The elasto plastic material model: Model description and numerical predictions. Presented at the VELACS extension project meeting at M.I.T. October, 1995.
1. Boris Jeremić and Stein Sture. Implicit integrations in geoplasticity. Presented at 10th ASCE Engineering Mechanics Conference, Boulder, Colorado, May 1995.