

Publications: Prof. Eckart Laurien

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- [145] Mi Zhou, R. Kulenovic, and E. Laurien: Micro-Thermocouple Measurements to Investigate the Temperature Fluctuations in the Fluid-Structure Interaction Facility of the University of Stuttgart, NUTHOS-11: The 11th International Topical Meeting on Nuclear Reactor Thermal Hydraulics, Operation and Safety, Gyeongju, Korea, Oct. 9-13, 2016
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1997

- [148] Numerische Simulation von Strömung und Wärmeübergang in Gas-Flüssigkeits-Gemischen, IKE-Kolloquium, Universität Stuttgart, Antrittsvorlesung, 14. Feb. 1997
- [149] Aktuelle Forschungsaufgaben der Abteilung Thermofluidynamik am IKE, ETH-Zürich, Institut für Fluidodynamik, 9. Jan. 1997

1998

- [150] Zukünftige Forschungsschwerpunkte auf dem Gebiet der Thermofluidynamik am IKE, Forschungszentrum Karlsruhe, Institut für Reaktorsicherheit, 15. Jan.1998

2007

- [151] E. Laurien: Computational Fluid Dynamics Methods for Pebble-Bed Reactors, EURO COURSE on HTR Technology, Stuttgart, March 27-29, 2007

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- [152] E. Laurien: Research on Nuclear Reactor Thermal Hydraulics using CFD-Methods, INET, Tsinghua University, Beijing, China, March 13, 2008
- [153] E. Laurien: Research on a Supercritical Water Reactor using CFD-Methods, Xi'an Jiao Tong University, China, March 17, 2008
- [154] E. Laurien: Heat Transfer Mechanisms at Supercritical Pressures, HPLWR Int. Student Workshop, Karlsruhe, 31.3. – 3.4.2008
- [155] E. Laurien: Overview of Research on Thermo-Fluid Dynamics of Nuclear Reactors at IKE, Texas A&M University, USA, Sept. 23, 2008

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- [156] E. Laurien: CFD-Studies of Nuclear Engineering Applications at IKE, International Workshop on New Horizons in Nuclear Reactor Thermal Hydraulics II, Mumbai, Indien, March 24, 2009

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- [157] E. Laurien: Technical Aspects of the Reactor Accident in Fukushima, Mechanical Engineering, University of California, Santa Barbara, USA, 2. Mai 2011
- [158] E. Laurien: Selected Research Topics of IKE: Severe Accidents, HTR Thermo-Hydraulics, Heat Transfer at Supercritical Pressure, Idaho National Laboratory, Idaho Falls, July 12, 2011

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- [159] E. Laurien: Die Numerische Strömungssimulation als Werkzeug für kerntechnische Sicherheitsanalysen, Seminar RWTH Aachen 17. Jan. 2012
- [160] E. Laurien: Rohrströmungen bei superkritischem Druck: Vorhersage von Wandreibung und Wärmeübergang, IKE Kolloquium, Universität Stuttgart, 27. Jan. 2012
- [161] E. Laurien: Numerische Modellierung von Zweiphasenströmungen mit Sieden, Universität Bremen, Seminar Fachgebiet Mechanische Verfahrenstechnik / Fachbereich Produktionstechnik, 7. Feb. 2012
- [162] E. Laurien: Multidimensional Computational Fluid Dynamics, Areva Professional School of Nuclear Engineering, Karlsruhe, 2013

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- [165] E. Laurien: Multidimensional Computational Fluid Dynamics, Areva Professional School of Nuclear Engineering, Karlsruhe, 2013

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- [166] E. Laurien: Multidimensional Computational Fluid Dynamics, Areva Professional School of Nuclear Engineering, Karlsruhe, 2014
- [167] E. Laurien, Prediction of Hydraulic Resistance and Heat Transfer of Super-Critical Water Pipe Flows with Wall Roughness, Workshop on Heat Transfer at Supercritical Pressure in Nuclear Reactors and Solar Energy Systems, Manchester, UK, June 30 – July 1st, 2014
- [168] Xu Chu and E. Laurien: DNS-Development of Supercritical Pipe Flow with Open Foam, Workshop on Heat Transfer at Supercritical Pressure in Nuclear Reactors and Solar Energy Systems, Manchester, UK, June 30 – July 1st, 2014
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- [171] Xu Chu and E. Laurien: Analysis of Convective Heat Transfer to Supercritical Carbon Dioxide with Direct Numerical Simulation, Projektbericht Höchstleistungsrechenzentrum Stuttgart (HLRS), April 2015
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- [174] E. Laurien: Theorie zu 2-Phasensimulationen, Open-FOAM Aufbaukurs, Uni-Stuttgart
- [175] E. Laurien: ERCOFTAC-Technologietag, Stuttgart

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- [177] D.M. McEligot, E. Laurien, W. Weng, S. He: A dominant thermal resistance approximation for heat transfer to supercritical-pressure fluids, Third International Meeting of Specialists on Heat transfer and fluid Dynamics at Supercritical pressure (HFSCP2016) 25 & 26 August 2016, Sheffield, United Kingdom