



## International Water Lectures for a Society Under Change 1/2018

SHS5936 – Graduate Program of Hydraulic & Sanitary Engineering ([www.eesc.usp.br/ppgshs](http://www.eesc.usp.br/ppgshs))  
(updated on 06 March, 2018)

**OBJECTIVES AND GOALS:** This course aims to introduce to top international and interdisciplinary lectures of water issues, as well as to promote innovative procedures using practical and theoretical backgrounds of a wide range of water engineering-oriented fields. The course thereby helps graduate students, either of Master or Doctorate levels, to identify crosscutting issues on water for a changing society. Moreover, the course helps with discussions on main water hypotheses and shortcomings of common-use methods for the XXIth Century's communities, with multipurpose stakeholders and with statements for inclusion and diversity, which will assist her/him in future water jobs. After 40 years of its creation, the Graduate Program of Hydraulics and Sanitary Engineering (PPGSHS) reached a top-academic position, as a Graduate Excellence Level (PROEX), which promotes a continuous effort towards multidimensional drivers and societal actors. On the one hand, the [CAPES 2013-2016 Engineering I Evaluation Report](#) recommends PPGSHS with increasing interdisciplinary and international courses, seminars and talks to strengthen the next generation of worldwide water leaders. On the other hand, the Vice-Rector of Postgraduate Studies recognized the running [PPGSHS Action Plan \(2017-2020\)](#) which acknowledges more international development activities through new courses. Thus, visiting world-class scholars, practitioners, shapers and makers, through cutting-edge talks, seminars and webinars engaging the participation of international networks, do tradeoff any potential imbalance of backgrounds of PPGSHS' students for forthcoming opportunities of water jobs in a progressive and competitive global market. This cycle of invited international talks supports worldwide programs, i.e.: the [2013-2022 IAHS/Panta Rhei "Everything Flows: Change in Hydrology and Society"](#), the [UNESCO-WWAP](#), the ["International Decade \(2018–2028\) for Action – Water for Sustainable Development"](#), the [Sustainable Development Programme and the UN Sustainable Development Goals \(SDG\)](#) and the [2015-2030 UN Disaster Risk Reduction Framework](#).

**REMARKS:** Individual grading of each student attending the lectures is assessed after s/he has a minimum number of accumulated hours of active participation to both (1) wide range of international lectures co-organized and (2) eventual post-talk homework questionnaires.

**AUDIENCE AND PRIORITY:** the International Water Lectures invites an open audience ranging from academics to stakeholders, decision-makers and private companies, but registration priority will be given to PPGSHS graduate students.

**FEES AND CREDITS:** No fee will be charged to participants. Students attending the Workshop will have partial recognition credits if officially enrolled in the cycle of 2018 [PPGSHS International Water Lectures – SHS5936](#).

**REGISTRATION:** PPGSHS-EESC/USP, Av. Trabalhador Saocarlense, 400, CEP 13566-590, Sao Carlos-SP, Tel: (16)33739552, Email: [ppgshs@sc.usp.br](mailto:ppgshs@sc.usp.br). Link: [www.eesc.usp.br/ppgshs](http://www.eesc.usp.br/ppgshs). Because of limited number of places, we strongly recommend earlier registration.

**DISCLOSURE STATEMENT:** these International Water Lectures are in compliance with the [CAPES Engineering I Strategic Document](#), the [2013-2016 CAPES Engineering I Evaluation Report](#), as well the [PPGSHS Action Plan 2017-2020](#).

**LIST OF LECTURES:** UPDATED LIST in [November, 2018](#) (see [Annex 1](#))

**CHAIRPERSON:** [Prof. E. Mario Mendiondo](#), [SHS,EESC,USP](#), [The WADI lab](#)

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**ANNEX 1 - INTERNATIONAL WATER LECTURERS, PPGSHS-EESC-USP** (updated on 20 November, 2018) (scheduled at Brasilia local times; asterisk \* represents webinar)



**Interdisciplinary Research Network on Urban Resilience Data, 2nd UK-Brazil Workshop**, by Prof Joao Porto de Albuquerque (Chairperson), Centre for Interdisciplinary Methodologies, Univ of Warwick, UK, 5-6 Feb., 2018, 7:00-15:00h, at Anfiteatro SHS-EESC-USP, USP-São Carlos (\*)



**How to manage microbial communities to recover energy from wastewater systems?** by Dr Claudia Etchebehere Arenas, IIBCE - Instituto de Investigaciones Biológicas Clemente Estable, Uruguay, 9 Feb., 2018, 9:00-10:30h, at Anfiteatro da Engenharia Ambiental - Campus 2, USP-São Carlos



**Contaminant source identification in aquifers: theory and laboratory experiments**, by Prof José Jaime Gómez Hernández, Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos Universitat Politècnica de Valencia, Spain; 14:30h, at LATAR SHS, EESC-USP, São Carlos



**The role of energy storage in the incorporation of renewable energy for water treatment**, by Prof. René Bañares-Alcántara, University of Oxford, UK; 14 March, 2018, 9:00-12:00h, at Anfiteatro da Engenharia Ambiental - Campus 2, USP-São Carlos



**The Water Energy Food Nexus and Clean Water: How to Ensure a Sustainable Supply?**, by Prof Nick Hankins, University of Oxford, UK; 14 March, 2018, 9:00h, at Anfiteatro da Engenharia Ambiental - Campus 2, USP-São Carlos



**Assessing the Performance of Current Stormwater Practices and Green Infrastructure in Treating Urban Stormwater Runoff**, by Prof. Márcio Giacomoni, University of Texas at San Antonio, USA; 21 March, 2018; 11:00h, Anfiteatro SHS-EESC-USP, São Carlos

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**Continental-Oceanic Mutual Interaction: The mutual impact between global climate changes and hydrological cycle through oceans**, by Prof. Yosuke Yamashiki, Kyoto University, Japan; 26 March, 2018; 11:00h, Anfiteatro do SHS-EESC-USP, USP-São Carlos



**Paradoxes of Interactions in Social Hydrology Through Humanitarian Engineering**, by Dr. Namrata Bhattacharya-Mis, Univ of Chester, United Kingdom; 01 August, 2018, 14:00h, LATAR Auditorium, SHS-EESC-USP, Sao Carlos



**Freshwater Science for a Changing Society: Challenges and Opportunities**, by Professor Matt Rowland Whiles, Southern Illinois University (SIU), USA, 03 September, 10:00h, at LATAR Auditorium, SHS-EESC-USP, Sao Carlos



**Hydrid Clay: A Sustainable Functional Material for Water Treatment**, by Prof. Emmanuel Iyayi Unuabonah, 2017 Nigerian Academic of Sciences Gold Medal Prize Winner, Department of Chemical Sciences, Redeemer's University, Nigeria; 26 September, 2018, at Sala B5, Bloco B, USP 1 (main campus), Sao Carlos-SP.



**The Soil and Water Assessment Tool (SWAT) with Applications to Water Resources under Climate Change**, by Prof Raghavan "Srinii" Srinivasan, Texas A&M Univ, College Station, TX, USA, 09-11 October, 2018, at SHS-EESC-USP, Sao Carlos



**Understanding the Implementation Challenges of Urban Resilience Policies**, by Evangelos Pitidis, Warwick Institute for the Science of Cities, University of Warwick, United Kingdom; 05 November, 14:30h, at Sala Posgraduação, EESC-USP, São Carlos-SP.



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**“Vertedores de barragens e escoamentos bifásicos: tradição e inovação”**, by [Professor Jorge de Saldanha Gonçalves Matos](#), [Departamento de Engenharia Civil, Arquitectura e Georrecursos do Instituto Superior Técnico, Universidade de Lisboa \(IST-ULisboa\), Portugal](#), **22 Nov 2018, 15:00h**, Anfiteatro do SHS, EESC-USP (USP/ Campus 1), Av. Trabalhador São-carlense, 400 ([link](#))



**“Data-Driven ANN-Based Predictive Water Quality Resilience Model”**, by Dr [Maryam Imani](#), [Faculty of Science and Engineering, Anglia-Ruskin University](#), UK; 5 Dec 2018, 15:00h, LATAR, SHS, USP1, Sao Carlos