

## PHA GROUNDWATER MODELING MEETING 2025



### MEETING SCHEDULE – AUGUST 20, 2025

**SPEAKERS: SCOTT ELLIOTT BOYCE (USGS/UCDAVIS), FABIO CUNHA LOFRANO (PHA/EP/USP)**

**ORGANIZATION: RENATO CARLOS ZAMBON (PHA/EP/USP)**

Wed 20	
14:00-15:30	<b>Opening and context of the meeting (Renato Carlos Zambon)</b> <b>“Conjunctive Use Modeling with Applications to California (Modeling Groundwater and Surface Water Systems)” (Scott Elliott Boyce)</b> <b>“Non-Darcian Transport in Porous Media: Insights from Entropy-Based Modeling” (Fabio Cunha Lofrano)</b>
15:30- 17:00	<b>Discussions</b>



PROF. SCOTT ELLIOTT BOYCE HAS 15 YEARS OF EXPERIENCE AS A RESEARCH HYDROLOGIST AT THE U.S. GEOLOGICAL SURVEY'S CALIFORNIA WATER SCIENCE CENTER AND 5 YEARS AS AN ADJUNCT PROFESSOR AT THE TECHNICAL UNIVERSITY OF MUNICH IN THE DEPARTMENT OF CIVIL, GEO, AND ENVIRONMENTAL ENGINEERING, SPECIALIZING IN HYDROLOGY AND RIVER BASIN MANAGEMENT. HE WAS THE LEAD DEVELOPER OF THE INTEGRATED HYDROLOGIC MODEL AND CONJUNCTIVE-USE SIMULATION SOFTWARE, MODFLOW-ONE WATER HYDROLOGIC FLOW MODEL (OWHM), AND IS NOW STARTING AS AN ASSISTANT PROFESSOR OF GROUNDWATER HYDROLOGY AT UC DAVIS. IN THIS MEETING, PROF. BOYCE AND OTHER GUEST SPEAKERS WILL PRESENT THEIR RESEARCH AND DISCUSS OPPORTUNITIES FOR COLLABORATIVE WORK WITH FACULTY AND RESEARCHERS IN THE FIELD.



CIVIL ENGINEER AND DOCTOR OF SCIENCE (HYDRAULIC AND ENVIRONMENTAL ENGINEERING) FROM THE POLYTECHNIC SCHOOL OF THE UNIVERSITY OF SÃO PAULO (USP). HE ALSO COMPLETED A POSTDOCTORAL FELLOWSHIP AT THE SAME INSTITUTION, WHERE HE IS CURRENTLY A FACULTY MEMBER. HIS RESEARCH FOCUSES ON FLOW MODELING IN POROUS MEDIA, MARINE HYDRAULICS, AND THE APPLICATION OF INFORMATION THEORY (ENTROPY) TO FLUID MECHANICS. HE HAS SERVED AS A CONSULTANT ON PROJECTS INVOLVING HYDRAULIC STRUCTURES, DREDGING, SANITATION, SLOPE STABILITY, LANDFILLS ON SOFT SOILS, AND TUNNELING.

**FREE REGISTRATION BUT LIMITED NUMBER OF PARTICIPANTS**

REGISTRION: <https://forms.gle/dMT481tCiw7qoTgf9>

Location: Dept. de Engenharia Hidráulica e Ambiental, Escola Politécnica da USP,  
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