



iah
Australian National
Chapter
NSW Branch

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Monday 21 May 2018
5.30pm for a 6pm start

WSP office
Ernst & Young Centre
Level 27, 680 George Street, Sydney CBD

****For late arrivals, please phone Peps on 0428936645 for access****



IAH NSW proudly presents the 2018 Darcy Lecture by **Masaki Hayashi, Ph.D.**
Professor in the Department of Geoscience, University of Calgary

Alpine Hydrogeology: The Critical Role of Groundwater in Sourcing the Headwaters of the World

Many of us have been awed by the stunningly beautiful view of alpine lakes and streams—and they are not just beautiful. Nearly half of the world's population relies on rivers originating in high mountains for water supply. Source areas of mountain streams have rugged topography with sparse soil and vegetation covers, and were once considered "Teflon basins" that have minimum capacity to store groundwater.

Alpine basins actually have important aquifer units that provide temporary storage of rain and meltwaters from snowpack and glaciers. Gradual release of water from these aquifers sustains streamflow during dry or cold periods. Due to rugged terrain and severely limited vehicle access, alpine hydrogeologists need to rely on creative methods to investigate groundwater, such as geophysical imaging techniques or observation of surface water/groundwater interaction.

This lecture will demonstrate how we can gain valuable insights into groundwater in challenging environments and develop a conceptual understanding of hydrological systems. These ideas and approaches will have broad applicability in a variety of environments, where hydrogeologists are faced with challenging conditions.

Please RSVP to:

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