

Editors:

Tony L. Wahl: Hydraulics Laboratory, Bureau of Reclamation, Denver, Colorado
(twahl@usbr.gov)

Bryan J. Heiner: Hydraulics Laboratory, Bureau of Reclamation, Denver, Colorado
(bheiner@usbr.gov)

Call for Papers

Special Collection on 30 Years of Acoustic Doppler Velocity Measurements



Background

2024 will mark the 30th anniversary of the publication of the first journal paper describing the laboratory acoustic Doppler velocimeter (ADV), "New Acoustic Meter for Measuring 3D Laboratory Flows" by Nicholas Kraus, Atle Lohrmann, and Ramon Cabrera in the Journal of Hydraulic Engineering (JHE), [https://doi.org/10.1061/\(ASCE\)0733-9429\(1994\)120:3\(406\)](https://doi.org/10.1061/(ASCE)0733-9429(1994)120:3(406)). This instrument and its successors dramatically changed laboratory and field measurements of three-dimensional point velocities and turbulence through a powerful combination of economy and ease of use. To celebrate this milestone, the Journal will host a Special Collection of papers on the ADV and its impact on laboratory and field measurements.

Aims & Scope

This Special Collection aims to stimulate scientific exchange and discussion about new and interesting ADV developments and applications, including interesting historical perspectives and novel deployment strategies. Potential topics include:

- Perspectives on ADV applications in laboratory and field work
- Turbulence and boundary layer measurements
- Integration of ADVs with other instrumentation and numerical modeling
- Profiling capabilities for ADV's
- Data analysis tools and techniques
- Uncertainty analysis

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Submission Guidelines

1. Please submit your manuscript via the *ASCE Journal of Hydraulic Engineering* website:
<https://www.editorialmanager.com/jrnhyeng>
2. Once on the Editorial Manager website, please indicate that your paper is for the "Special Collection on 30 Years of Acoustic Doppler Velocity Measurements" edited by Tony L. Wahl and Bryan J. Heiner.
3. Detailed information on the submission process is provided in the document "Publishing in ASCE Journals: A Guide for Authors" available at <https://doi.org/10.1061/9780784479018>

Please note that all accepted papers submitted in response to this Call for Papers will be published in regular issues of the *Journal of Hydraulic Engineering* and assembled online on a page dedicated to this Special Collection. See <https://ascelibrary.org/page/jhend8/specialcollections> for the list of Special Collections already published.