

# DAS-Research Coordination Network (RCN)

## Overview

### PRINCIPALS

1. Herb Wang, PI (U. of Wisconsin-Madison)
2. Bob Woodward, co-PI (IRIS)
3. Scott Tyler, co-PI (CTEMPs)
4. Kasey Aderhold, Project Associate (IRIS)

### MAIN ACTIVITIES

1. Develop Working Groups on important DAS topics and disseminate their discussions.
2. Organize workshops, short courses, and webinars.

### COMMUNICATION

1. DAS-RCN website: [https://www.iris.edu/hq/initiatives/das\\_rcn](https://www.iris.edu/hq/initiatives/das_rcn)
2. DAS INTEREST GROUP (DIG) MAILING LIST: [das@lists.ds.iris.edu](mailto:das@lists.ds.iris.edu)

### GOALS

1. Identify applications of DAS and develop a network of potential DAS users.
2. Train a community of DAS users in the acquisition, handling and processing of DAS data.
3. Identify needed technical development (engineering and scientific).
4. Identify major challenges and next steps for supporting DAS science beyond the RCN.

### ACKNOWLEDGMENT:

NSF Award 1948737 managed by Eva Zanterkia in Division of Earth Sciences (EAR) with contributions from many programs, including Geophysics, Hydrologic Sciences, Instrumentation & Facilities, Antarctic Earth Sciences, Antarctic Glaciology, Arctic System Science, and Geomorphology & Land-use Dynamics.

# DAS-RCN Organization

## Steering Committee

Herbert Wang (Co-PI)	University of Wisconsin-Madison
Scott Tyler (Co-PI)	University of Nevada, Reno
Robert Woodward (Co-PI)	IRIS
Kasey Aderhold (Project Associate)	IRIS
Jonathan Ajo-Franklin	Rice University
Matt Becker	California State University, Long Beach
Dante Fratta	University of Wisconsin-Madison
Mark Hausner	Desert Research Institute
Zuyuan He	Shanghai Jiao Tong University
Charlotte Krawczyk	GFZ-Potsdam
Yingping Li	BlueSkyDas
Nate Lindsey	FiberSense
Eileen Martin	Virginia Tech
Danica Roth	Colorado School of Mines
Whitney Trainor-Guitton	SeaOwl Energy (Total)
Zhongwen Zhan	Caltech
Lucas Zoet	University of Wisconsin-Madison

## Working Groups and Leads

R&D Test Sites	Andreas Wuestefeld (NORSAR)
Data Management	Jerry Carter (IRIS)
Energy Technologies and CO2 Monitoring	Julia Correa (LBL)
Earthquake and Array Seismology	Ray Willemann (AFRL)
Urban Seismology	Biondo Biondi (Stanford)
Instrumentation	Kasey Aderhold (IRIS)
Machine Learning	Eileen Martin (Virginia Tech) Whitney Trainor-Guitton (SeaOwl Energy (Total))
Engineering Infrastructure	Dante Fratta (U. of Wisconsin-Madison)
Hydrology	Mark Hausner (U. of Nevada, Reno)
Geomorphology	Danica Roth (Colorado School of Mines)
Cryosphere	Luke Zoet (U. of Wisconsin-Madison)
Volcanic and Seismic Hazard Monitoring	Lotte Krawczyk (GFZ Potsdam)
Marine Geophysics	Nate Lindsey (FiberSense)
Geomechanics	Matt Becker (Cal State-Long Beach)
Early-Career DAS Network	Nate Lindsey (FiberSense)

# Working Group Activities

- Open membership
- Level of participation is up to you
- Hear topical talks as part of meetings
- Plan Webinars
- Compile publications, conference papers, and data sets
- Prepare issues and opportunities reports

# 2021 DAS EVENTS AND WEBINARS

January

- RCN Webinar: DAS test bed virtual tours (every other month)

February

- RCN Webinar: Cryosphere  
*Advances in Distributed Sensing for Geophysics Workshop at 2021 SEG-AGU (February 8-10, 2021 | Houston, Texas, USA)*

March

- RCN Webinar: Marine Geophysics
- [EAGE \(2<sup>nd</sup> Annual\) Workshop on Distributed Fibre Optic Sensing](#) (Mar 1 - 3, 2021 | The Hague, The Netherlands, and also Online)

April

- RCN Webinar: Engineering

May

- RCN Webinar: Machine Learning

June

- RCN Webinar: Volcano Monitoring
- *Fiber Optic Distributed Temperature, Acoustic, and Strain Sensing for Geomechanics at 55th US Rock Mechanics and Geomechanics Symposium (ARMA) (June 20-23, 2021 | Houston, Texas, USA)*

July

- RCN Webinar: Data Management.

August

- *Distributed Acoustic Sensing: Scientific Frontiers and Community Needs Workshop at 2021 GAGE/SAGE Workshop (TBD | Breckenridge, Colorado, USA)*

TBD (Late 2021/2022)

- RCN DAS Field Course

Thank you for participating. Come back for the DAS Webinar series beginning in January 2021.

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