

Welcome to SCIWS2
Advances in Distributed Acoustic
Sensing
Sponsored by DAS Research
Coordinating Network

Tuesday Dec 1
13:00-19:00 EST

We will begin shortly

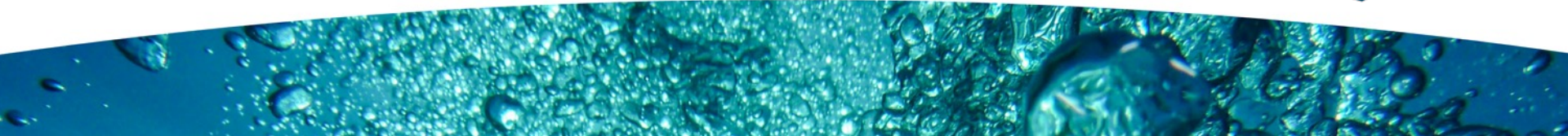
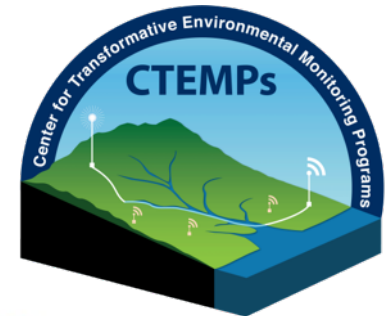
Workshop Agenda

01:00 - 01:15	Bob Woodward, Scott Tyler - Introductions and Objectives
01:15 - 01:45	Eileen Martin - DAS primer
01:45 - 03:00	<ul style="list-style-type: none"> • Tiejuan Zhu - "Lessons learned from implementing the FORESEE DAS array" • Zack Spica - "Ocean-bottom shallow velocity structure inferred with DAS" • Menno Buisman - "Monitoring nautical depth with DAS and DTS in Ports and Waterways" • Bin Luo - "Microseismics from fiber-optic distributed acoustic sensing: the near-field strain signals and the guided waves" • Ethan Williams - "Passive source imaging of offshore wind turbines with ocean-bottom DAS" • Zhongwen Zhan - "Map earthquake hazard and fault zones with DAS" • Siyuan Yuan - "Urban seismology applications of a roadside DAS array at Stanford University"
03:00 - 03:30	Break
03:30 - 05:00	<ul style="list-style-type: none"> • Thomas Coleman, Carlos Maldaner - Silixa • Vincent Lanticq, Calbris Gaëtan, Camille Jestin - Febus Optics • Ricardo Arias, Javier Vidal, Asier Villafranca - Aragon • Martin Karrenbach - OptaSense • John Ohanian - Luna • Matthew Wolf, Brian Borkowski, Darren Wolfe - Terrasound Technologies
05:00 - 05:30	Break
05:30 - 06:30	<ul style="list-style-type: none"> • Camille Jestin - "Experiments in Gauge Length Impact" • Jonathan Ajo-Franklin - "Avoid DAS-aster; Issues to consider before your next DAS experiment" • Adam Booth - "A Q-rious case of frequency content: Gauge-length lessons from borehole DAS in ice" • Julia Correa - "SOV-DAS for realizing the potential of permanent reservoir monitoring"
06:30 - 07:00	Herb Wang - Updates from the DAS RCN and Concluding Remarks

Organizers and Support



- The National Science Foundation
- The University of Wisconsin, Madison
- Incorporated Research Institutions for Seismology (IRIS)
- The Centers for Transformative Environmental Monitoring Programs (CTEMPs)
- The American Geophysical Union



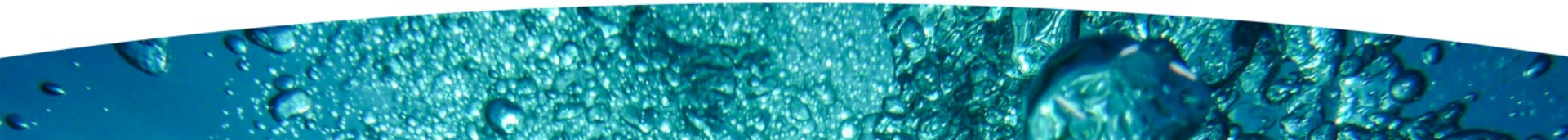
DAS Primer

Introduction: Scott Tyler

Presentation: Eileen Martin and Nate Lindsey

Questions: Eileen Martin, Virginia Tech University

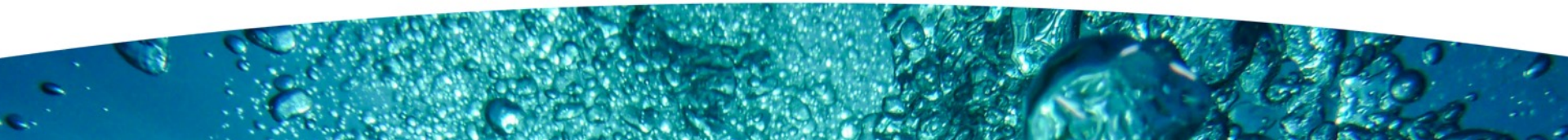
<https://www.youtube.com/watch?v=LAcQ44YRMuM>



Recent Advances in DAS

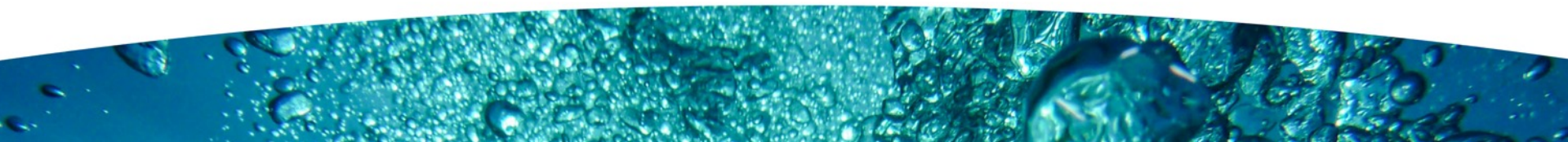
Introductions: Herb Wang, Univ. of Wisconsin,
Madison

Moderator: Rachel Hatch, Univ. of Nevada, Reno



Workshop Agenda

01:45 - 03:00	<ul style="list-style-type: none">● Tieyuan Zhu - “Lessons learned from implementing the FORESEE DAS array”● Zack Spica - “Ocean-bottom shallow velocity structure inferred with DAS”● Menno Buisman - “Monitoring nautical depth with DAS and DTS in Ports and Waterways”● Bin Luo - “Microseismics from fiber-optic distributed acoustic sensing: the near-field strain signals and the guided waves”● Ethan Williams - “Passive source imaging of offshore wind turbines with ocean-bottom DAS”● Zhongwen Zhan - “Map earthquake hazard and fault zones with DAS”● Siyuan Yuan - "Urban seismology applications of a roadside DAS array at Stanford University"
03:00 - 03:30	Break

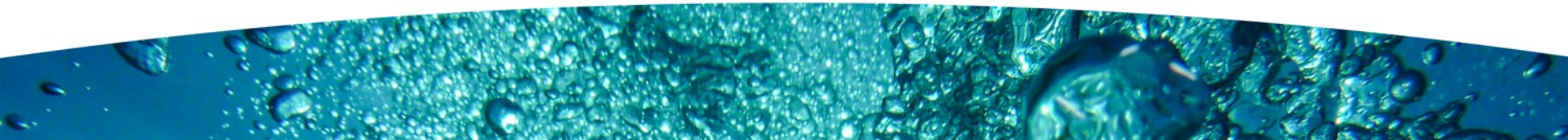


We are on Break
SCIWS2
Advances in Distributed Acoustic
Sensing

We will begin again at 15:30 EST

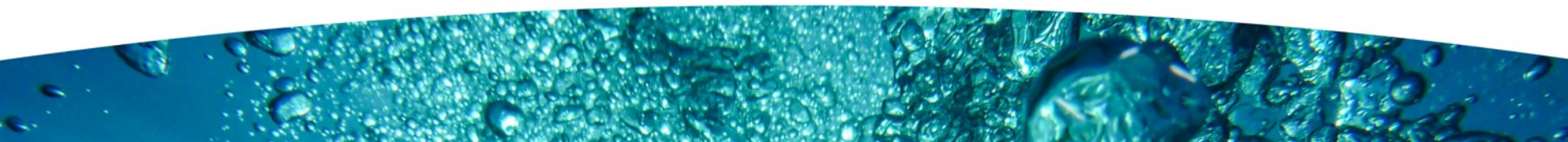
Industrial Presentations on DAS Instrumentation

Introductions: Scott Tyler, Univ. of Nevada, Reno
Moderator: Herb Wang, Univ. of Wisconsin,
Madison



Presenters

03:30 - 05:00	<ul style="list-style-type: none">● Thomas Coleman, Carlos Maldaner - Silixa● Vincent Lanticq, Calbris Gaëtan, Camille Jestin - Febus Optics● Ricardo Arias, Javier Vidal, Asier Villafranca - Aragon● Martin Karrenbach - OptaSense● John Ohanian - Luna● Matthew Wolf, Brian Borkowski, Darren Wolfe - Terrasound Technologies
05:00 - 05:30	Break



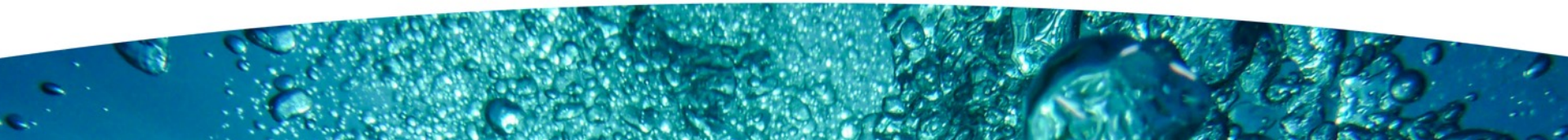
We are on Break
SCIWS2
Advances in Distributed Acoustic
Sensing

We will begin again at 17:30 EST

Notes from the Field: Insights from Users

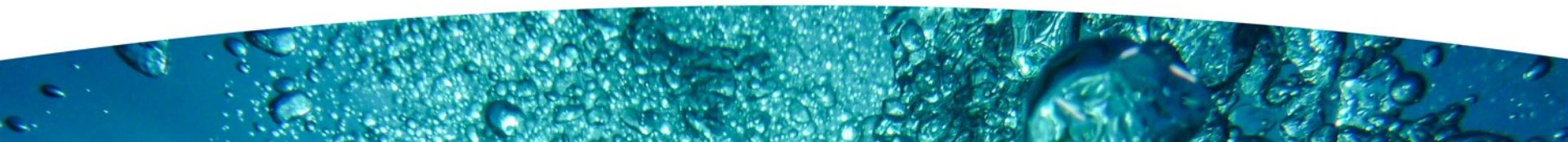
Introductions: Rachel Hatch, Univ. of Nevada,
Reno

Moderator: Kasey Aderhold, IRIS



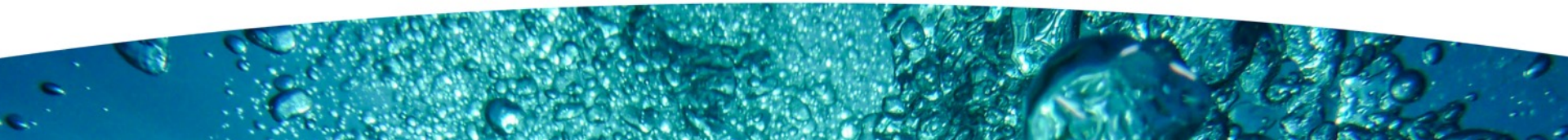
Presenters

05:30 - 06:30	<ul style="list-style-type: none">● Camille Jestin - "Experiments in Gauge Length Impact"● Jonathan Ajo-Franklin - "Avoid DAS-aster; Issues to consider before your next DAS experiment"● Adam Booth - "A Q-rrious case of frequency content: Gauge-length lessons from borehole DAS in ice"● Julia Correa - "SOV-DAS for realizing the potential of permanent reservoir monitoring"
06:30 - 07:00	Herb Wang - Updates from the DAS RCN and Concluding Remarks



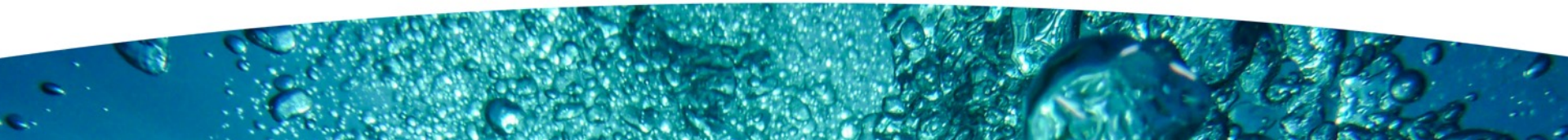
Updates on the RCN and Wrap Up

Herb Wang, RCN Director, Univ. of Wisconsin,
Madison



Thank You to our Presenters!

- And thanks to Jim Colleton from AGU for behind the scenes organizing!



Organizers and Support



- The National Science Foundation
- The University of Wisconsin, Madison
- Incorporated Research Institutions for Seismology (IRIS)
- The Centers for Transformative Environmental Monitoring Programs (CTEMPs)
- The American Geophysical Union

