



WINTER 2020

INSIDE THIS ISSUE:

Annual Briefing Delivered
in Washington, DC 3

Pre-proposals Advance
to Full Proposal Stage 4

FY21 Needs Solicitation
Process Launched 5

Dates & Locations
to Change for 2020
Program IPRs 6

NESDI News

Highlights & Happenings

WHO WE ARE

The NESDI program is the Navy’s environmental research and development, demonstration and validation (6.4) program, sponsored by the Chief of Naval Operations Energy and Environmental Readiness Division (OPNAV N45) and managed by the Naval Facilities Engineering Command (NAVFAC) from the Engineering and Expeditionary Warfare Center (EXWC) in Port Hueneme, CA. The mission of the program is to provide solutions by demonstrating, validating and integrating innovative technologies, processes and materials and by filling knowledge gaps to minimize operational environmental risks, constraints and costs while ensuring Navy readiness and lethality.



**The NESDI Program:
Integrating Green Technologies Into the Fleet**



WINTER 2020

From the Program Manager's Desk



Ken Kaempfe

Welcome to the winter 2020 issue of *NESDI News: Highlights & Happenings*—part of our ongoing effort to keep you informed about the Navy Environmental Sustainability Development to Integration (NESDI) program.

This quarterly update provides you with the latest information about program operations, significant accomplishments and future focus areas for the NESDI program. We hope you will find these insights useful and that they encourage you to participate (or increase your involvement) in the program over the coming months.

The next major milestone on our schedule is the collection of full proposals requested from the set of pre-proposals submitted in response to our request for proposals. A brief summary of the 15 full proposals that we requested can be found in the “Pre-proposals Advance to Full Proposal Stage” in this issue of the program newsletter.

We will also launch our needs solicitation process for fiscal year (FY) 2021 over the next couple of weeks. Although you can submit a need at any time, our formal needs collection process runs until 3 August 2020. (See the “FY21 Needs Solicitation Process Launched” section in this issue of *NESDI News* for more insights.)

Finally, I'd like to welcome two new members to our management committee—the Technology Development Working Group (TDWG). Tom Webb will be filling the slot vacated by Barbara Sugiyama who accepted a position as the Resources Division Director (EV4) at NAVFAC Far East in Yokosuka, Japan. Tom has been both a branch head and now division director in EXWC's Environmental Department. He is currently in the EV1 position formerly held by Bill Venable. Before coming to EXWC, for many years Tom was a supervisor at Naval Base Ventura County Public Works Office both in environmental and facilities capacities. He also worked overseas as the Installation Environmental Program Director (IEPD) at Naval Support Activity Naples as well as working at NAVFAC Europe, Africa, Southwest Asia (EURAFSWA).

Jeff Henning is replacing Sandi Mukherjee as the TDWG representative from the Naval Supply Systems Command (NAVSUP). Sandi will be retiring within the next several months. Jeff currently serves



WINTER 2020

From the Program Manager's Desk *(continued)*

as the Hazardous Materials Products & Services Lead for NAVSUP Headquarters—a position he has held since November 2016. Prior to this, Jeff supervised the hazardous materials data team at NAVSUP Weapon Systems Support (WSS) for three years. Before working for NAVSUP, Jeff worked as an environmental scientist for over 16 years with NAVFAC Mid-Atlantic, serving as an Installation Restoration and Hazardous Waste Program Manager for Naval Support Activity Mechanicsburg. He has also held positions with the U.S. Department

of Commerce—as a Natural Resource Trustee and Superfund liaison to U.S. Environmental Protection Agency Region III—and private environmental firms and laboratories.

Tom and Jeff bring tremendous amounts of experience to the TDWG and will be able to help us improve our management and transition processes. Please join me in welcoming Tom and Jeff to our team.

Ken Kaempffe
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Annual Briefing Delivered in Washington, DC

During the week of 13-17 January 2020, Ken Kaempffe travelled to Washington, DC along with Cindy Webber and Bruce McCaffrey to present the annual program summary briefing to personnel from NAVFAC Headquarters and our resource sponsor organization—OPNAV N45. Among the attendees at the NAVFAC briefing were Mr. Larry E. Douchand (Assistant Commander for Environmental Programs) and his deputy, Wayne Blodgett. Most of the time spent at the Pentagon was dedicated to an extended conversation with Rachel Methvin—the NESDI program's new OPNAV representative—about her role as the program's primary advocate at the Pentagon.

Rachel is OPNAV N45's new Water Program Manager and will be responsible for policy, resourcing

and oversight of the drinking water, wastewater, stormwater programs in addition to the NESDI program. Rachel will also resume any other duties previously carried out by Lindsay Nehm, including chairing the Department of Defense's Clean Water Act Services Steering Committee (SSC) and being the Navy lead on the Safe Drinking Water Act SSC. Prior to her current position at OPNAV N45, Rachel served as the acting Environmental Business Line Leader for NAVFAC EURAFSWA, the acting Environmental Planning and Natural and Cultural Resources Product Line Leader and the Compliance Product Line Leader.

Conversations with Mr. Douchand, Wayne, Rachel and others were, as always, very productive and useful to NESDI program managers as they continue to navigate the program in this fiscal year and beyond.



WINTER 2020

Pre-proposals Advance to Full Proposal Stage

In early winter 2020, members of the TDWG reviewed and evaluated the 24 pre-proposals it received and then requested full proposals for

the following 15 pre-proposals. Sixty-two percent of the pre-proposals received were advanced to the full proposal phase.

No.	ID	Submitter	Command	Title
1.	364	Autumn Resto	NAVFAC EXWC	Real-Time Multi-Contaminant Detection System (RMDS)
2.	366	James Pilkington	NAVFAC EXWC	Low-Profile Integrated Porous Pretreatment Swale (LIPPS) for Metals Treatment in Industrial Areas
3.	368	Tony Danko	NAVFAC EXWC	Integrated Analytical Approach to Transition from Active to Passive Treatments at Munitions Sites
4.	369	Christopher Weber	NAVFAC EXWC	Evaluating Potential Effects to Marine Biota from Small-Scale, Legacy Radioactive Objects
5.	372	Marianne (Molly) Colvin	NIWC Pacific	Demonstration of a Signal Activated Bottom Lander Trap
6.	374	Joey Trotsky	NAVFAC EXWC	Locating and Quantifying Groundwater Surface Water Connections Using Distributed Temperature Sensing
7.	376	Joey Trotsky	NAVFAC EXWC	Demonstration of the Robust Caisson Structure to Reduce Blast Effects from Underwater Blow-In-Place
8.	377	Kami Carter	NAVAIR	Dry Ice Paint Removal and Cleaning
9.	378	Gunther Rosen	NIWC Pacific	Demonstration and Application of Amendments Targeting Comingled Organics and Metals in Sediments
10.	380	Iryna Dzieciuch	NIWC Pacific	Effluent Copper Quantification by Flow-Through Optical Detection
11.	381	Itzel Godinez	NAVFAC EXWC	Detection Methodology and Treatment Train Technology for PFAS Removal in Bilge and Oily Wastewater (BOW)
12.	382	Mike Brindza	NAVAIR	Low-VOC, Non-HAP Faster Dry Aerospace Primers
13.	383	Erick Iezzi	NRL	Single-Component (1K) and Fast Curing Metal-Rich Polysiloxane Primer
14.	384	Brandon Swope	NIWC Pacific	High Efficiency Media for Metals Removal in NPDES Discharges
15.	385	John Frew	NIWC Pacific	Rapid Pathogen Detection in Drinking and Surface Waters

Full proposals associated with the 15 pre-proposals listed in the table above were due on 12 March 2020.



WINTER 2020

FY21 Needs Solicitation Process Launched

Our formal needs collection process for FY21 runs from 1 June until 3 August 2020. The NESDI program defines a “need” as a requirement to eliminate or reduce an environmental constraint that:

- Addresses an operational challenge
- Identifies an existing gap in knowledge, technology and/or capability
- Is associated with an environmental constraint or regulatory driver

When submitting a need, we encourage you to provide as much information as you can about your issue. What is the problem? How big is it? What’s the basis of the problem? Is it due to a current or impending regulatory requirement that now makes your job more difficult? Is it a technology gap? Is it an operational challenge? Is the problem unique to your facility or is it applicable across the Navy?



1 To submit your need by 3 August 2020, go to the NESDI website at <https://epl.navfac.navy.mil/nesdi>.

2 Visit the “Needs” section (<https://epl.navfac.navy.mil/nesdi/Needs.aspx>) then click on the “Submit Your Need Now” button. This will take you to the “NESDI Environmental Needs Submission Form.”

3 Use this form to tell us everything you can about your need. Then click on the “Submit Need” button to complete the process.

Once you submit your need, technical experts assembled by NESDI program management will assess, validate and rank it. You will be notified about the ultimate status of your need once this ranking process is complete. If you submitted a need in a previous year and it is still a valid need, please resubmit it via our website and provide any updated information you may have.

For more information, download our Reference Guide: Submitting and Evaluating Needs by visiting the NESDI website at <https://epl.navfac.navy.mil/nesdi/Needs.aspx> then clicking on the “Needs” banner and then clicking on the “reference guide” hyperlink. Any other questions about the use of our website can be directed to Eric Rasmussen, our webmaster, at eric.rasmussen@navy.mil and 732-323-7481.



WINTER 2020

Dates & Locations to Change for 2020 Program IPRs

The program intends to hold three IPRs over the course of fiscal year 2020. But due to the travel restrictions being put in place to mitigate the spread of the coronavirus, the actual dates and locations for those IPRs are being reconsidered. As a result of those restrictions, our first IPR will be held via Defense Collaboration Services and conference calls in lieu of a face-to-face meeting. Our east coast IPR will be rescheduled once the Department of Defense “stop movement” edict has been lifted. At this point, we intend to hold a second west coast IPR in San Diego as noted in the table below although that may also change based on the status of the coronavirus outbreak in June 2020.

What	When	Where
First West Coast IPR	23-27 March 2020	Remotely via Defense Collaboration Services and conference calls
East Coast IPR	TBD	Fleet Readiness Center Southeast (Jacksonville, FL)
Second West Coast IPR	8-12 June 2020	Naval Information Warfare Center (San Diego, CA)

More information about our FY20 IPRs will be provided in future issues of *NESDI News*. An entire program schedule for the next year is provided in the “Program Schedule” section in this issue of the program’s newsletter.

Check Out Our Website



Check out our website at <https://epl.navfac.navy.mil/nesdi>



WINTER 2020

Program Schedule

Throughout the summer, the program will concentrate its efforts on collecting and evaluation the needs received via our FY20 solicitation. A complete program schedule for the next year is provided below.

No.	What	When
1.	Full Proposals DUE	12 March 2020
2.	Conduct First West Coast In-Progress Review	23-27 March 2020 (via Defense Collaboration Services and conference calls)
3.	Screen Full Proposals	30 March – 3 April 2020
4.	Principal Investigator Answers to Full Proposal Screening Questions DUE	22 May 2020
5.	Conduct East Coast In-Progress Review	TBD (Jacksonville, FL)
6.	Announce FY21 Needs Solicitation	1 June 2020
7.	Complete Evaluation of Full Proposals	4 June 2020
8.	Obtain Sponsor Review & Approval of Full Proposals	5-25 June 2020
9.	Conduct Second West Coast In-Progress Review	8-12 June 2020 (San Diego, CA)
10.	Announce FY21 New Starts	28 July 2020
11.	Close FY21 Needs Solicitation	3 August 2020
12.	Screen FY21 Needs	10-14 August 2020
13.	Evaluate & Rank Needs	14 -18 September 2020
14.	Obtain Sponsor Review & Approval of Needs	21 September – 14 October 2020
15.	Request Pre-proposals	2 November 2020
16.	Pre-proposals DUE	8 December 2020
17.	Make Pre-proposals Assignments to FWGs	23 December 2020
18.	TDWG & FWG Comments on Pre-proposals DUE	8 January 2021
19.	Evaluate Pre-proposals	11-15 January 2021
20.	Conduct OPNAV N45 Programmatic Review	January 2021
21.	Request Full Proposals	18 January 2021
22.	Quarterly Status Reports Due	6 April 2020 6 July 2020 5 October 2020 4 January 2021

Check out our website at
<https://epl.navfac.navy.mil/nescdi/Schedule.aspx>
 for the latest version of our program schedule.



WINTER 2020

NESDI News

Highlights & Happenings

GETTING ON OUR MAILING LIST

If you're not already on our mailing list and want to subscribe to *NESDI News*, please send your email address to Lorraine Wass at ljwass@outlook.com.

CONTACT YOUR TDWG MEMBER

For more information about the operation of the NESDI program, contact Ken Kaempffe, the NESDI program manager, or members of the TDWG.

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IN THE NEXT ISSUE OF *NESDI News*

There is a lot more information coming your way in the next issue of *NESDI News: Highlights & Happenings*. In our spring 2020 issue, we will provide you with updates on our efforts to review the full proposals we requested for “new start” projects in FY21 and beyond.

