



SPRING/SUMMER 2020

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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**



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From the Program Manager's Desk



Ken Kaempffe

Welcome to the spring/summer 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.

Despite the onset of the coronavirus pandemic, we continue to hold our annual In-Progress Reviews (IPR) virtually via Defense Collaboration Services (DCS) and other conference calling capabilities. Though not optimal, we continue to have meaningful conversations with our various Principal

Investigators about their progress on NESDI-funded projects since our last IPRs held in fiscal year (FY) 2019.

The next major milestone on our annual schedule is the formal launch our needs solicitation process that will lead to the formation of “new start” projects in FY21 and beyond. Although you can submit a need at any time, our formal needs collection process runs from 1 June until 3 August 2020. (See the “FY21 Needs Solicitation Process Launched” section in this issue of *NESDI News* for more insights.)

Ken Kaempffe
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Full Proposals Under Review

Members of the program’s management committee—the Technology Development Working Group (TDWG)—are busy screening, reviewing and evaluating the following 14 full proposals that were received via the program’s FY21 solicitation:

No.	ID	Submitter	Command	Title
1.	221	James Pilkington	NAVFAC EXWC	Low-Profile Integrated Porous Pretreatment Swale (LIPPS) For Metals Treatment in Industrial Areas
2.	222	Autumn Resto	NAVFAC EXWC	Real-Time Multi-Contaminant Detection System (RMDS)
3.	223	Joey Trotsky	NAVFAC EXWC	Locating and Quantifying Groundwater Surface Water Connections Using Distributed Temperature Sensing
4.	224	Joey Trotsky	NAVFAC EXWC	Demonstration of the Robust Caisson Structure to Reduce Blast Effects from Underwater Blow-In-Place
5.	225	Jovan Popovic	NAVFAC EXWC	Evaluating Potential Effects to Marine Biota from Small-Scale, Legacy Radioactive Objects
6.	226	Gunther Rosen	NIW Pacific	Demonstration and Application of Amendments Targeting Comingled Organics and Metals in Sediments
7.	227	Marienne (Molly) Colvin	NIWC Pacific	Demonstration of a Signal Activated Bottom Lander Trap
8.	228	Brandon Swope	NIWC Pacific	High Efficiency Media for Metals Removal in NPDES Discharges
9.	229	Erick Iezzi	NRL	Single-Component (1K) and Fast Curing Metal-Rich Polysiloxane Primer
10.	230	Itzel Godinez	NAVFAC EXWC	Detection Methodology and Treatment Train Technology for PFAS Removal in Bilge and Oily Wastewater (BOW)
11.	231	Tony Danko	NAVFAC EXWC	Integrated Analytical Approach to Transition from Active to Passive Treatments at Munitions Sites
12.	232	Iryna Dzieciuch	NIWC Pacific	Effluent Copper Quantification by Flow-Through Optical Detection
13.	233	John Frew	NIWC Pacific	Rapid Pathogen Detection in Drinking and Surface Waters
14.	234	Kami Carter	NAVAIR	Dry Ice Paint Removal and Cleaning

Once the TDWG has completed its review and subsequent ranking, a list of approved proposals will be forwarded to the subject matter experts (SME) at the program’s resource sponsor organization—the Chief of Naval Operations Energy and environmental Readiness Division (OPNAV N45) for their review and approval in June 2020. Those SMEs will have until 25 June to conduct their own review of the above-listed full proposals.



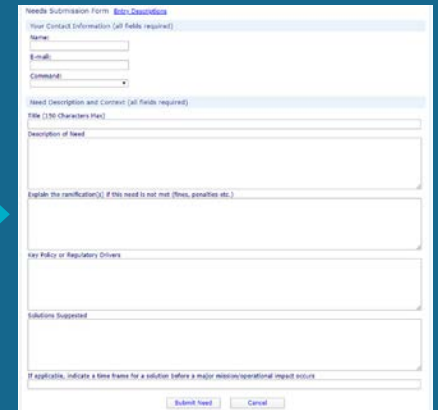
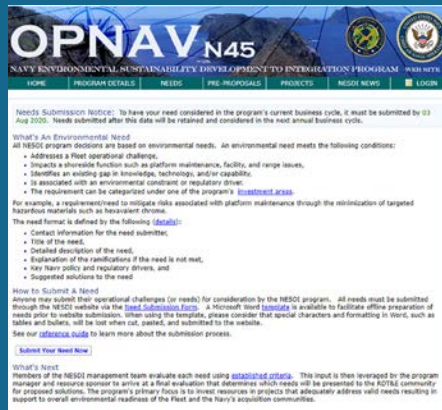
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FY21 Needs Solicitation Process Launched

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.



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2020 In-Progress Reviews Being Held “Virtually”

Due to the travel restrictions put in place to mitigate the spread of the coronavirus, the program’s three IPRs are being held “virtually” in lieu of face-to-face meetings. These virtual IPRs will rely on a number of teleconferencing tools including DCS and conference calls. Over two dozen personnel from across the country participated in our first west coast virtual IPR that highlighted progress being made by Principal Investigators assigned to NAVFAC EXWC in Port Hueneme, CA. Our second virtual IPR was held the week of 5-7 May and concentrated on briefings delivered by Principal Investigators at a number of east coast Navy installations including the Fleet Readiness Center Southeast in Jacksonville, FL and the Naval Air Warfare Center—Aircraft Division (NAWC-AD) Patuxent River, MD and NAWC-AD Lakehurst, NJ. As before, most Principal Investigators and all TDWG members dialed into this IPR from their home offices. The program will hold a second west coast IPR (originally scheduled for San Diego, CA) the week of 15-18 June using the same teleconferencing tools.

Up-to-date 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>.



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Program Schedule

Throughout the summer, the program will concentrate its efforts on collecting and evaluation the needs received via our FY21 solicitation. A complete program schedule for the next year is provided below.

No.	What	When
1.	Announce FY21 Needs Solicitation	1 June 2020
2.	Complete Evaluation of Full Proposals	4 June 2020
3.	Obtain Sponsor Review & Approval of Full Proposals	5-25 June 2020
4.	Conduct Third FY20 Virtual In-Progress Review	15-18 June 2020
5.	Announce FY21 New Starts	28 July 2020
6.	Close FY21 Needs Solicitation	3 August 2020
7.	Screen FY21 Needs	10-14 August 2020
8.	Evaluate & Rank Needs	14 -18 September 2020
9.	Obtain Sponsor Review & Approval of Needs	21 September – 14 October 2020
10.	Request Pre-proposals	2 November 2020
11.	Pre-proposals DUE	8 December 2020
12.	Make Pre-proposals Assignments to FWGs	23 December 2020
13.	TDWG & FWG Comments on Pre-proposals DUE	8 January 2021
14.	Evaluate Pre-proposals	11-15 January 2021
15.	Conduct OPNAV N45 Programmatic Review	January 2021
16.	Request Full Proposals	18 January 2021
17.	Full Proposals DUE	11 March 2021
18.	Screen Full Proposals	29 March - 2 April 2021
19.	Principal Investigator Answers to Full Proposal Screening Questions DUE	23 April 2021
20.	FWG & TDWG Comments on Full Proposals DUE	3 May 2021
21.	Quarterly Status Reports Due	6 July 2020 5 October 2020 4 January 2021 5 April 2021

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



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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

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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 fall 2020 issue, we will provide you with updates on our FY20 “new start” projects.