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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 2019 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 execution of our needs solicitation process for fiscal year (FY) 2020. Although you can submit a need at any time, our formal needs collection process runs until 3 August 2019. (See the “FY20 Needs Solicitation Process Launched” section

in this issue of *NESDI News* for more insights.) So if you want to submit a need for consideration as part of our FY20 solicitation, you’ll have to hurry.

We have just recently completed our In-Progress Reviews (IPR) for this fiscal year—one at the Washington Navy Yard in May of this year and a second IPR at the Naval Information Warfare Center (NIWC)—formerly the Space and Naval Warfare Systems Center—in San Diego, CA in June. For more insights, see “Successful 2019 IPRs Held” in this issue of *NESDI News*.

Ken Kaempffe  
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## FY20 Needs Solicitation Process Launched

Our formal needs collection process for FY20 runs from 3 June until 3 August 2019. The NESDI program defines a “need” as a requirement to eliminate or reduce an environmental constraint that:

1. Addresses an operational challenge
2. Identifies an existing gap in knowledge, technology and/or capability
3. 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?



<https://epl.navfac.navy.mil/nesdi>

To submit your need by 3 August 2019, go to the NESDI website at <https://epl.navfac.navy.mil/nesdi>.



<https://epl.navfac.navy.mil/nesdi/Needs.aspx>

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.” 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](mailto:eric.rasmussen@navy.mil) and 732-323-7481.



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## Full Proposals Submitted to Resource Sponsor

Since the publication of our last newsletter, we have submitted the following 15 full proposals to our resource sponsor (OPNAV N45) for their review, comment and approval.

No.	Proposal ID	Title	Performing Agency
1.	209	Innovative Activated Carbon Filters to Address Vapor Intrusion Within Commercial/Industrial Buildings	EXWC
2.	208	Improve Cost Effectiveness of Groundwater Monitoring with Long Duration Time-Integrated Groundwater Samplers	EXWC
3.	212	In-Well Headspace Samplers for Long-Term Groundwater Chlorinated Hydrocarbon Monitoring	NRL
4.	216	In-Pipe Stormwater BMP Treatment System	NIWC
5.	211	Flexible Under Pier Sediment Assessment	NIWC
6.	217	Assessment of Cadmium Alternatives for Connector Applications	NAWCAD Lakehurst
7.	218	Demonstrating the Use of a Novel, Hybrid Polyelectrolyte/Hydrophilic Polymer for In Situ PFAS Treatment Applications	EXWC
8.	214	Contaminant Monitoring and Mapping for Informing Stormwater Best Management Practices	NIWC
9.	213	Developing Lines of Evidence to Support Nutrient Compliance	NIWC
10.	205	Evaluation of Various Real-Time Monitors to Accelerate On-Site Analysis for Vapor Intrusion	EXWC
11.	210	Development and Implementation of Methods to Reduce Sealant Waste in Fleet/Depot Level Operations	NAWCAD Patuxent River
12.	206	Field Demonstration of Colloidal Activated Carbon for In Situ Sequestration of Per- and Polyfluoroalkyl Substances	EXWC
13.	219	Mesocosm Field Testing of In Situ PFAS Treatment Trains	NIWC
14.	220	In-Situ Biodegradation of 1,4-Dioxane and Chlorinated Solvent Mixtures in Dilute Plumes	EXWC
15.	215	Sensor Interface and Infrastructure for Monitoring	NIWC

**If approved, these proposals will become the program's "new start" projects for FY20.**



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## Successful 2019 IPRs Held

Each year, the NESDI program holds IPRs to check in on the progress made by the program’s Principal Investigators and make sure that their efforts will achieve the intended results. These annual reviews bring together end users, resource sponsor representatives and researchers—shrinking the gap between the research and required integration efforts. Each year, dozens of participants attend or dial in to hear briefings about ongoing projects and to provide valuable feedback to the program’s Principal Investigators.

At our first FY19 IPR held at the Washington Navy Yard, NESDI Principal Investigators highlighted their ongoing efforts to address the persistent and difficult environmental issues facing the Navy including several projects that address the presence and

management of perfluorooctanoic acid (PFOA) at environmental restoration sites. In addition to these and other project presentations, IPR attendees were also able to learn more about the history of the Washington Navy Yard during an afternoon tour of the campus.

The program’s second FY19 IPR was held at NIWC (formerly the Space and Naval Warfare Systems Center) in San Diego, CA. Nearly four dozen attendees from over a dozen different organizations participated in this IPR either in person or over the phone to hear the latest information on a number of our ongoing projects as well as a tour the NIWC laboratories.

Final attendee lists and briefings for both FY19 IPRs are available from Cindy Webber at [cynthia.webber@navy.mil](mailto:cynthia.webber@navy.mil) and 760-939-2060.

## Dates & Locations Set for 2020 Program IPRs

The dates and locations are set for the program’s 2020 IPRs so mark your calendars accordingly.

What	When	Where
East Coast IPR	4-8 May 2020	Fleet Readiness Center Southeast (Jacksonville, FL)
West Coast IPR	8-12 June 2020	Naval Facilities Engineering Command Northwest (Silverdale, WA)

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.



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## Program Schedule

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

No.	What	When
1.	Close FY20 Needs Solicitation	3 August 2019
2.	Screen FY20 Needs	12-15 August 2019
3.	Evaluate & Rank Needs	9 - 13 September 2019
4.	Obtain Sponsor Review & Approval of Needs	16 September - 11 October 2019
5.	Request Pre-proposals	14 October 2019
6.	Pre-proposals DUE	5 December 2019
7.	Make Pre-proposals Assignments to FWGs	13 December 2019
8.	TDWG & FWG Comments on Pre-proposals DUE	6 January 2020
9.	Evaluate Pre-proposals	6-10 January 2020
10.	Conduct OPNAV N45 Programmatic Review	January 2020
11.	Request Full Proposals	14 January 2020
12.	Full Proposals DUE	12 March 2020
13.	Screen Full Proposals	30 March - 3 April 2020
14.	Conduct First FY20 In-Progress Review	4-8 May 2020 (Jacksonville, FL)
15.	FWG & TDWG Comments on Full Proposals DUE	1 May 2020
16.	Principal Investigator Answers to Full Proposal Screening Questions DUE	22 May 2020
17.	Announce FY21 Needs Solicitation	1 June 2020
18.	Complete Evaluation of Full Proposals	4 June 2020
19.	Obtain Sponsor Review & Approval of Full Proposals	6-24 June 2020
20.	Conduct Second FY20 In-Progress Review	8-12 June 2020 (Silverdale, WA)
21.	Announce FY21 New Starts	26 July 2020
22.	Quarterly Status Reports Due	7 October 2019 6 January 2020 6 April 2020 6 July 2020

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

## 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](mailto:ljwass@outlook.com).



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### 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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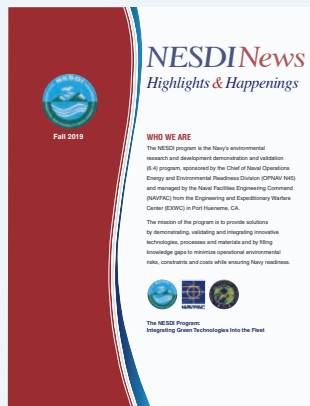
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### IN THE NEXT ISSUE OF NESDI News

There is a lot more information coming your way in the next issue of *NESDI News: Highlights & Happenings*. In our fall 2019 issue, we will provide you with updates on our efforts to launch our FY20 “new start” projects and evaluate and rank the needs we received via our FY20 solicitation process.