SPRING 2015

NESDI NEWS

Highlights & Happenings



Welcome

This quarterly update provides you with the latest information about program operations, significant accomplishments, and future focus areas for the Navy Environmental Sustainability Development to Integration (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 NESDI Program: Integrating Green Technologies Into the Fleet



From the Program Manager's Desk



Ken Kaempffe NESDI Program Manager Welcome to the spring 2015 issue of NESDI News: Highlights & Happenings—part of our ongoing effort to keep you informed about the NESDI program.

Since you last heard from us, we held our two annual In-Progress Reviews (IPR)—one in Virginia Beach for our stormwater and east coast projects the week of 13-17 April and a second IPR in San Diego for our west coast projects the week of 4-8 May. More insights into the attendees and accomplishments of these IPRs is provided in the "Successful 2015 IPRs Held in Virginia Beach & San Diego" section in this issue of *NESDI News*.

We've also just released the latest in our series of annual reports. Our fiscal year (FY) 2014 report highlights our program and project accomplishments from last year. More information about our FY14 Year in Review report is provided in the "Program Releases FY14 Year in Review Report" section of this issue of *NESDI News*.

The next major milestone on our schedule is the execution of our needs solicitation process for FY16. Although you can submit a need at any time, our formal needs collection process runs from 1 June until 3 August this year. (See our "Program Schedule" in this issue of *NESDI News* for more insights.)

For the NESDI program, a "need" defines a requirement to eliminate or reduce an environmental constraint that:

- 1. Addresses a Fleet 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, I 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 a fleet operational challenge? Is the problem unique to your facility or is it applicable across the Navy?

For more information about submitting a need, read the "Using Our Web Site" section in this issue of *NESDI News*, visit our web site at www.nesdi.navy.mil, or contact your TDWG representative.





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 in Port Hueneme, CA.

The mission of the program is to provide solutions by demonstrating, validating, and integrating innovative technologies, processes, materials, and by filling knowledge gaps to minimize operational environmental risks, constraints, and costs while ensuring Fleet readiness.



Successful 2015 IPRs Held in Virginia Beach & San Diego

Each year, the NESDI program holds IPRs to check on the progress made by our 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—strengthening the gap between the research and required integration efforts. In addition to members of our Technology Development Working Group (TDWG) and our Principal Investigators, we were joined by various end users (usually over the phone) who provided important insights into the ongoing progress of many of our projects. This input from the end users of our demonstrated technologies is invaluable to us as we ensure that our efforts are properly focused and result in products that are both useful and employed by our colleagues at various shore installations across the Navy.

This year, our IPRs were held in Virginia Beach for our stormwater and east coast projects during the week of 13-17 April and a second IPR was held in San Diego for our west coast projects the week of 4-8 May. Dozens of participants from a variety of organizations attended or dialed into our IPRs to hear briefings about ongoing projects and to provide valuable feedback to our Principal Investigators.

Dave Cotnoir's efforts (from Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic) to help us prepare and execute our east coast IPR were invaluable. In addition to the logistical support he provided, Dave also secured participation among key local personnel including Will Bullard (NAVFAC Mid-Atlantic), Jeff Laitila (the newly-appointed Navy and Department of Defense Regional Environmental Coordinator for Region 3), and Sarah Diebel, Chesapeake Bay program coordinator who also provided attendees with the latest information about the program's activities, successes and priorities.

Personnel from the following organizations participated (either in person or over the phone) in our east coast IPR:

- 1. Chesapeake Bay Program
- 2. Chief of Naval Operations
 Energy and Environmental
 Readiness Division
- 3. Commander, Navy
 Installations Command
- 4. Concurrent Technologies Corporation
- Fleet Readiness Center Southeast
- 6. Kansas State University
- 7. Low Impact
 Development Center

- Naval Air Warfare Center Aircraft Division Patuxent River
- Naval Air Warfare Center Weapons Division China Lake
- Naval Facilities Engineering and Expeditionary Warfare Center
- 11. Naval Facilities Engineering Command Headquarters
- 12. Naval Facilities Engineering Command Mid-Atlantic
- 13. Naval Facilities Engineering Command Northwest
- 14. Naval Magazine Indian Island
- 15. Naval Sea Systems Command Headquarters
- 16. Naval Surface Warfare Center Carderock Division
- 17. Naval Surface Warfare Center Crane
- 18. Navy Region 3
- 19. Norchem Corporation
- 20. Pearl Harbor Naval Shipyard
- 21. Puget Sound Naval Shipyard and Intermediate Maintenance Facility
- 22. Southern California
 Water Resources Board
- 23. Space and Naval Warfare Systems Command, Systems Center Pacific
- 24. U.S. Army

In addition to listening to the briefs delivered by the program's Principal Investigators, IPR attendees also visited the stormwater Best Management Practices at the near-by Joint Expeditionary Base Little Creek-Fort Story—many of which were instituted under guidance and oversight provided by Dave Cotnoir and Will Bullard.

Just as important to the success of the west coast IPR were Pat Earley's efforts to secure an appropriate location for the meeting, host a tour of SPAWAR's laboratories, and even arrange a bowling event one evening at the lanes on Naval Air Station North Island.

Personnel from the following organizations participated (either in person or over the phone) in our west coast IPR:

- 1. CB&I Federal Services
- 2. CDM Smith
- 3. CH2M
- 4. Chief of Naval
 Operations Energy
 and Environmental
 Readiness Division
- 5. Commander, Navy Installations Command
- 6. Fleet Readiness Center Southeast
- 7. Kansas State University

- 8. Naval Air Systems Command In-Service Support Center Jacksonville
- 9. Naval Air Systems Command North Island
- 10. Naval Air Warfare Center Weapons Division China Lake
- 11. Naval Facilities Engineering and Expeditionary Warfare Center
- 12. Naval Facilities Engineering Command Headquarters
- 13. Naval Facilities Engineering Command Atlantic
- 14. Naval Facilities Engineering Command Southeast
- 15. Naval Facilities Engineering Command Southwest
- 16. Naval Surface Warfare Center Carderock Division
- 17. Puget Sound Naval Shipyard
- 18. Space and Naval
 Warfare Systems
 Command, Systems
 Center Pacific
- 19. U.S. Army Corps of Engineers
- 20. University of Illinois
- 21. University of Wisconsin

Our thanks go out to Dave Cotnoir, Pat Earley and everyone else who played a role in making this year's IPRs difficult to top.



Dates Set for 2016 Program IPRs

At the conclusion of the 2015 IPRs, the TDWG established the schedule for the 2016 IPR. So mark your calendars accordingly.

WHAT	WHEN	WHERE		
West Coast IPR	7-11 March 2016	China Lake, CA		
East Coast IPR	2-6 May 2016	Washington Navy Yard, DC		

A program schedule for the next year is provided in the "Program Schedule" section in this issue of *NESDI News*.

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As always, space for our IPRs is limited.

To request a seat or for more information including a draft agenda and dial-in information, contact Cindy Webber at cynthia.webber@navy.mil or 760-939-2060.

Program Releases FY14 Year in Review Report: Annual Report Highlights Program Successes & Ongoing Challenges

The NESDI program has just released its most recent annual report. The report profiles "new starts" for FY14 and discusses projects that were particularly successful over the course of the year in demonstrating the use of an innovative technology or integrating critical information to stakeholders across the Navy. Some notable project accomplishments in FY14 include:

- Project 440: Surface
 Cleaning of Drydock Floors.
 This project developed a
 method and vehicle for
 removing hazardous wastes
 from drydock floors.
- Project 455: Modeling
 Tool for Navy Facilities
 to Quantify Sources,
 Loads, and Mitigation
 Actions of Metals in
 Stormwater Discharges.
 This team developed a
 modeling tool to help site
 managers develop and
 implement control practices
 to reduce metal concentrations
 in stormwater runoff.



Project 458: Advanced

Non-Chromate Primers and Coatings.
In an effort to remove hexavalent chromium from the waste stream, this team demonstrated and validated a new, state-of-the-art non-chromate primer and drafted an authorization letter to allow seven aircraft platforms to use it.

 Project 459: Demonstration and Validation of Sediment Ecotoxicity Assessment Ring Technology for Improved Assessment of Ecological Exposure and Effects. The team conducted a successful field stormwater demonstration of an integrated in situ bioassessment tool, the Sediment Ecotoxicity

Assessment Ring, developed

under a SERDP project.



• Project 469: Validation
of a Low Tech Stormwater
Procedural Best
Management Practice.
This team validated that power
vacuuming and high-pressure
washing of impervious
surfaces reduced average
loading of copper and zinc
on three San Diego piers by
75 percent and 40 percent,
respectively.





Project 464: Tertiary
Treatment and Recycling
of Waste Water. This
project team demonstrated
a manmade wetland for
reclamation and reuse
of wastewater.
In FY14, the team received

In FY14, the team received a permit allowing its use for subterranean irrigation at Marine Corps Recruit Depot San Diego.

For a hard copy of the
NESDI program's FY14 and
other Year in Review reports,
please contact Lorraine
Wass at 207-384-5249
or ljwass@outlook.com.
An electronic (pdf) version
of the report can also be
downloaded from the
program's web site at
www.nesdi.navy.mil.



The Latest Project Fact Sheets On-line

Want more insights into our projects? One-page fact sheet summaries of our projects are available on our web site and no username or password is required. Visit www.nesdi.navy.mil then select "Projects." You'll see a list of projects with our most recent efforts at the top of the list. Click on the "Fact Sheet" link in the "More Information" column for more details. The "More Information" can also be used to display those projects with posted final reports, videos and *Currents* articles.

Navy Environmental Sustainability

Development to Integration (NESDI) Program

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Current Projects: Define your filter and sort criteria, then click 'Go'

Status: Rey Word/Phrase Search: All Status Statu

On-line Fact Sheets







A New "Look & Feel" for Our Web Site

Thanks to Eric Rasmussen (our web master), our web site (www.nesdi.navy.mil) has a new "look and feel" which we hope will improve your user experience. The new format provides a cleaner interface with new navigation options. The public component includes links to more program details, defined environmental needs, pre-proposals, project highlights and back issues of *NESDI News*. The home page also includes the latest information on program happenings.

The management side of the site, which requires a user account login, is a work flow application that serves all aspects of program management. It provides a collaborative interface that program participants can use to review and evaluate needs, research proposals and project progress to support sound program investment decisions.

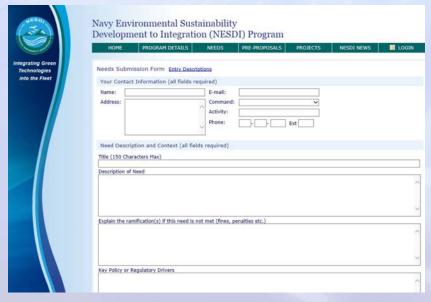


The web site continues to provide information on submitting needs, pre-proposals and proposals. For questions on these or any other function of our web site, contact our webmaster Eric Rasmussen at 732-323-7481 or eric.rasmussen@navy.mil.

Using Our **Web Site**

To submit your need, visit the "Environmental Needs" section on the NESDI web site (at www.nesdi.navy.mil) then click on the "Submit Your Need Now" button. This will take you to the "NESDI Environmental Needs Submission Form."





Use this on-line form to tell us everything you can about your need. Then use "Spell Check" to correct any typos and 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 web site and provide any updated information you may have.

www.nesdi.navy.mil

For more information, download our Reference Guide: Submitting and Evaluating Needs by visiting the NESDI web site at www.nesdi.mil then clicking on the "Environmental Needs" button. Any other questions about the use of our web site can be directed to Eric Rasmussen, our webmaster, at 732-323-7481 and eric.rasmussen@navy.mil.



Program **Schedule**

From now through the end of the summer, the program will concentrate its efforts on collecting and screening needs received via our FY16 solicitation. A complete program schedule is provided below.

NO.	WHAT	WHEN
1.	Announce FY16 Needs Solicitation	1 June 2015
2.	Obtain Sponsor Review	8 June 2015
	& Approval of Full Proposals	
3.	Announce FY16 New Starts	30 July 2015
4.	Close FY16 Needs Solicitation	3 August 2015
5.	Screen Needs	10-14 August 2015
6.	Evaluate & Rank Needs	14-18 September 2015
7.	Obtain Sponsor Review & Approval of Needs	21 September - 8 October 2015
8.	Request Pre-proposals	14 October 2015
9.	Conduct OPNAV N45 Programmatic Review	October 2015
10.	Pre-proposals DUE	18 November 2015
11.	Make Pre-proposals Assignments to FWGs	1 December 2015
12.	TDWG & FWG Comments on Pre-proposals DUE	16 December 2015
13.	Evaluate Pre-proposals	11-15 January 2016
14.	Request Full Proposals	20 January 2016
15.	Conduct West Coast In-Progress Review	7-11 March 2016 (China Lake, CA)
16.	Full Proposals DUE	16 March 2016
17.	FWG & TDWG Comments on Full Proposals DUE	1 April 2016
18.	Screen Full Proposals	4-8 April 2016
19.	Conduct East Coast In-Progress Review	2-6 May 2016 (Washington Navy Yard, DC)
20.	Principal Investigator Answers to Full Proposal Screening Questions DUE	2 May 2016
21.	Evaluate Full Proposals	9-13 May 2016
22.	Quarterly Status Reports Due (all Mondays)	6 July 2015 5 October 2015 4 January 2016 4 April 2016

Check out our web site (www.nesdi.navy.mil) 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 207-384-5249 or 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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1.	Kaempffe, Ken (Chair)	NAVFAC	805-982-4893	ken.kaempffe@navy.mil
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3.	Bixler, Christy	NAVFAC/CNIC	202-685-9313	christy.bixler@navy.mil
4.	Earley, Pat	SPAWAR	619-553-2768	patrick.earley@navy.mil
5.	Hertel, Bill	NAVSEA	301-227-5259	william.hertel@navy.mil
6.	McCaffrey, Bruce	Consultant	773-376-6200	brucemccaffrey@sbcglobal.net
7.	Rasmussen, Eric	NAVAIR	732-323-7481	eric.rasmussen@navy.mil
8.	Sugiyama, Barbara	NAVFAC	805-982-1668	barbara.sugiyama@navy.mil
9.	Venable, Bill	NAVFAC	805-982-1674	william.venable@navy.mil
10.	Webber, Cindy	NAVAIR	760-939-2060	cynthia.webber@navy.mil
11.	Youngers, Luzmarie	NAVAIR	904-790-6396	luzmarie.youngers@navy.mil



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*. For the past several weeks, NESDI program personnel have been conducting a final review of the full proposals that we received to address the priority needs we collected during our FY15 needs solicitation. More information about the results of our final review of full proposals as well as updates on our efforts to screen the needs we received by our 3 August deadline will be provided in the summer 2015 issue of *NESDI News*.