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WHO WE ARE

The Navy Environmental Sustainability Development to Integration (NESDI) program is the Navy's environmental research and development, demonstration and validation (6.4) program, sponsored by the OPNAV N4I Installations Division and managed by the Naval Facilities Engineering Systems Command (NAVFAC) out of 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 winter/spring 2023 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.

In this issue, we highlight four of the seven "new start" projects that we launched at the beginning of FY23 three of which are tackling the challenges associated with per and polyfluoroalkyl substances (PFAS) including quicker identification of PFAS in soil (project no. 605), treating PFAS co-contaminates (project no. 606), and the use of a mobile unit to destroy PFAS in aqueous media (project no. 608). We also provide a schedule for our FY23 In-Progress Reviews (IPR) as well as a year-out program schedule.

Our management committee—the Technology Development Working Group (TDWG)—will be busy over the next several months reviewing the dozens of full proposals we requested from potential investigators.

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.

Cer Kaappelle

Ken Kaempffe ken.kaempffe@navy.mil



FY23 "New Start" Projects Launched

Subject matter experts from the program's resource sponsor approved the following seven efforts as our "new start" projects for FY23:

- 1. 3D-Printed Cone Spray Ionization Mass Spectrometry for the Rapid, Low-Cost and In-Situ Detection and Mapping of PFAS in Soil (project no. 605)
- 2. External Concentrating Parabolic Collector (XCPC) Solar Thermal Evaporation for PFAS-Impacted Wastewater Minimization (project no. 606)
- 3. Artificial Intelligence for Environmental Compliance (project no. 607)
- 4. Application of Supercritical Water Oxidation (SCWO) to Destroy PFAS-Impacted Waste Streams (project no. 608)

- 5. Oxsol-Free and Low-VOC Surface Ship Topside Coatings for Maintaining Environmental Regulations (project no. 609)
- 6. Evaluation of Existing and Required Pierside Infrastructure to Accommodate Shoreside Collection and Treatment of Navy Vessel Ballast Discharges (project no. 610)
- 7. Subsurface Fate and Transport of Petroleum Based Contaminants in Naval Facilities (project no. 611)

The first four of the projects listed above are highlighted on the following pages. The remaining three projects will be highlighted in the next issue of *NESDI News*.

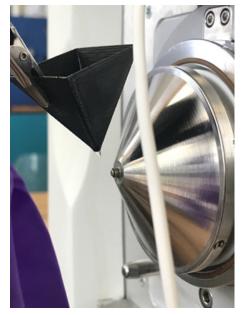


FY23 "New Start" Projects Launched (continued)

3D-Printed Cone Spray Ionization Mass Spectrometry for the Rapid, Low-Cost and In-Situ Detection and Mapping of PFAS in Soil (project no. 605)

PRINCIPAL INVESTIGATOR: Patrick Fedick, Ph.D.

Traditional analysis methods for PFAS detection utilize time-consuming extraction methods followed by lengthy chromatographic separations with mass spectrometry detection. To overcome these issues, a cone spray ionization (CSI) method is used, consisting of a threedimensional cone constructed of folded filter paper, which allows solid samples to be placed within the hollowed compartment. A hole at the tip of the cone allows PFAS to pass through for analysis.



Analysis of PFAS in bulk soil by 3D-printed cone spray ionization mass spectrometry. (Photo Credit: Patrick Fedick)

While this method produces good results, reproducibility can be a limitation due to variability of the manual cone construction. This team is using a rigid, 3D printed CSI (3D-PCSI) cone to replace the hand-shaped cone. The 3D-PCSI mass spectrometer will also be improved through the use of an autosampler, which will hold 6-8 cones at a time. This will result in a process that is at minimum 30 times faster than traditional chromatography MS.

External Concentrating Parabolic Collector (XCPC) Solar Thermal Evaporation for PFAS-Impacted Wastewater Minimization (project no. 606)

PRINCIPAL INVESTIGATOR: Hunter Spence

Per and polyfluoroalkyl substances (PFAS) are a persistent problem at Department of Defense facilities. However, due to the co-constituents in PFAS wastewater, incineration is currently the only option available for much of this wastewater.

Evaporation is an attractive option for PFAS-impacted wastewater because PFASs of interest do not readily volatilize during boiling, thus do not leave the bulk solution during evaporation. The External Compound Parabolic Concentrator (XCPC) is an emerging technology that, when combined



FY23 "New Start" Projects Launched (continued)



The XCPC system. (Photo Credit: Winston Cone Optics)

with a commercial off-the-shelf (COTS) thermal evaporation unit and a steam condenser, is capable of achieving wastewater volume reductions of greater than 90 percent. This project will demonstrate and evaluate an XCPC system. At the end of the project, a peer-reviewed academic paper will document the results of the demonstration, and will serve as supporting evidence to regional regulators of the scientific validity of using this technique.

Artificial Intelligence for Environmental Compliance (project no. 607)

PRINCIPAL INVESTIGATOR: Hunter Klein

The objective of this effort is to demonstrate the capability of artificial intelligence (AI) and machine learning (ML) to predict the risk of an installation experiencing a future notice of violation (NOV) or noncompliance event.

Recent improvements in memory capacity, processing speed, and

programming tools have made analytics via AI/ML more accessible and powerful than ever before. ML models present a way to evaluate large volumes of data to look for patterns, trends, relationships and other associations that can help the Navy to understand and predict the potential for violations. This project team will select candidate ML models based on prediction method and data constraints and apply them to identified regulatory data repositories. The end goal is to select a model or models that can be used to predict the probabilities of certain noncompliance events.



Machine learning and artificial intelligence are becoming part of everyday data science training programs. (Photo Credit: Elisha Gamboa)



FY23 "New Start" Projects Launched (continued)

Application of Supercritical Water Oxidation (SCWO) to Destroy PFAS-Impacted Waste Streams (project no. 608)

PRINCIPAL INVESTIGATOR: Ramona Iery, Ph.D.

This team is designing and demonstrating a mobile Supercritical Water Oxidation (SCWO) demonstration system capable of destroying PFAS. The SCWO technique has been demonstrated in the laboratory to destroy PFAS in various aqueous solutions. SCWO destroys PFAS compounds to form carbon dioxide, water, and hydrofluoric acid (HF). HF is neutralized with a base such as sodium hydroxide prior to discharging the treated water. SCWO differentiates itself from other PFAS treatment technologies in several ways, including the fact that it can destroy PFAS in aqueous media in less than 10 seconds. **Because SCWO destroys PFAS** rather than transferring them to other media, it eliminates future liability to the Navy. Successful demonstration of SCWO will validate it for application at sites having PFAS-impacted wastes and will provide data necessary for Navy project managers to assess the efficacy and cost of the technology.



Soil and/or wastewater from well installations can be a source of per and polyfluoroalkyl substances. (Photo Credit: Theanne Tangen)

Fact sheets for the above and other NESDI projects will be made available on the program's public website at www.navfac.navy.nil/nesdi.



NIWC Personnel Receive Patent for Stormwater Technology

Personnel from NIWC Pacific and NAVFAC Southwest were granted a patent of the "In-Pipe Stormwater Treatment System" (NESDI project no. 576) led by Brandon Swope). This project is evaluating the efficacy of a novel in-pipe treatment system to aid with stormwater permit compliance. Investigators successfully completed the first field demonstration with a "commercializable" version of the in-pipe stormwater BMP. The system was evaluated over the course of several storm events at Naval Amphibious Base Coronado.

Results were promising with reductions in total suspended solids (TSS), copper and zinc. A few final design modifications were made to further optimize the system. A patent for the system (U.S. patent no. 11459744) was issued on 4 October 2022. Future work will include controlled BMP evaluation at the newly constructed pseudo-pipe testing site at Naval Information Warfare Center (NIWC) Pacific. Additional work will focus on technology transition, both to additional sponsors and end users, as well as a path to commercialization.

The final version of the patent is available from the USPTO website at http://patft.uspto.gov/netacgi/nph-Parser?patentnumber=11459744.

FY23 In-Progress Reviews Scheduled

The program is will hold two IPRs over the course of FY23 following the schedule below.Principal Investigators and TDWG members are encouraged to adjust their calendars accordingly.

| What | When | Investigators Presenting |
|------------|------------------|--------------------------|
| First IPR | 25-27 April 2023 | NAVFAC EXWC and others |
| Second IPR | 9-11 May 2023 | NIWC Pacific and others |



Program Schedule

An entire program schedule for the next year is provided below.

| No.WhatWhen1.Full Proposals DUE10 March 20232.Screen Full Proposals27-31 March 20233.Principal Investigator Answers to Full Proposal Screening Questions DUE21 April 20234.Full Proposal Review21 April to 12 May 20235.Conduct First In-Progress Review24-28 April 20236.Conduct Second In-Progress Review8-12 May 20237.Complete Evaluation of Full Proposals19 May 20238.Obtain Sponsor Review & Approval of Full Proposals20 May to 30 June 20239.Announce FY24 Needs Solicitation1 June 202310.Close FY24 Needs21-25 August 202311.Screen FY24 Needs21-25 August to 29 September 202312.Evaluate & Rank Needs28 August to 29 September 202313.Obtain Sponsor Review & Approval of Needs2-27 October 202314.Request Pre-proposals DUE8 December 202315.Pre-proposals DUE8 December 202316.Evaluate Pre-proposals DUE8 December 2023 to 19 January 202417.Request Full Proposals24 January 202418.Conduct Programmatic Review with NAVFAC Headquarters and OPNAV N4I Installations Division3 April 2023 3 July 2023 2 October 202319.Quarterly Status Reports Due3 April 2023 3 July 2023 2 October 202319.Quarterly Status Reports Due3 April 2023 3 July 2023 2 October 2023 3 July 2023 2 October 2023 3 July 2024 | | 1 0 1 | 1 |
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Check out our website www.navfac.navy.mil/nesdi/Schedule.aspx for the latest version of our program schedule.





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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 summer 2023 issue, we will provide you with updates on the status of our review and ranking of our most recent set of full proposals.