

4-29-2015

# Collaborative Research: A Nanostructure Sensor for Measuring Dissolved Iron and Copper Concentrations in Coastal and Offshore Seawater

Mark Wells

*Principal Investigator; University of Maine, Orono, mlwells@maine.edu*

Carl Tripp

*Co-Principal Investigator; University of Maine, Orono, ctrip@maine.edu*

Follow this and additional works at: [https://digitalcommons.library.umaine.edu/orsp\\_reports](https://digitalcommons.library.umaine.edu/orsp_reports)

 Part of the [Nanoscience and Nanotechnology Commons](#), and the [Oceanography Commons](#)

---

## Recommended Citation

Wells, Mark and Tripp, Carl, "Collaborative Research: A Nanostructure Sensor for Measuring Dissolved Iron and Copper Concentrations in Coastal and Offshore Seawater" (2015). *University of Maine Office of Research and Sponsored Programs: Grant Reports*. 426.

[https://digitalcommons.library.umaine.edu/orsp\\_reports/426](https://digitalcommons.library.umaine.edu/orsp_reports/426)

This Open-Access Report is brought to you for free and open access by DigitalCommons@UMaine. It has been accepted for inclusion in University of Maine Office of Research and Sponsored Programs: Grant Reports by an authorized administrator of DigitalCommons@UMaine. For more information, please contact [um.library.technical.services@maine.edu](mailto:um.library.technical.services@maine.edu).

- [My Desktop](#)
- [Prepare & Submit Proposals](#)
- [Proposal Status](#)
- [Proposal Functions](#)
- [Awards & Reporting](#)
- [Notifications & Requests](#)
- [Project Reports](#)
- [Submit Images/Videos](#)
- [Award Functions](#)
- [Manage Financials](#)
- [Program Income Reporting](#)
- [Federal Financial Report History](#)
- [Financial Functions](#)
- [Grantee Cash Management Section Contacts](#)
- [Administration](#)
- [User Management](#)
- [Research Administration](#)
- [Lookup NSF ID](#)

## Preview of Award 0826098 - Final Project Report

- [Cover |](#)
- [Accomplishments |](#)
- [Products |](#)
- [Participants/Organizations |](#)
- [Impacts |](#)
- [Changes/Problems](#)

### Cover

Federal Agency and Organization Element to Which Report is Submitted:	4900
Federal Grant or Other Identifying Number Assigned by Agency:	0826098
Project Title:	Collaborative Research: A Nanostructure Sensor for Measuring Dissolved Iron and Copper Concentrations in Coastal and Offshore Seawater
PD/PI Name:	Mark L Wells, Principal Investigator Carl P Tripp, Co-Principal Investigator
Recipient Organization:	University of Maine
Project/Grant Period:	10/01/2008 - 09/30/2014
Reporting Period:	10/01/2013 - 09/30/2014
Submitting Official (if other than PD\PI):	Mark L Wells Principal Investigator
Submission Date:	04/29/2015
Signature of Submitting Official (signature shall be submitted in accordance with agency specific instructions)	Mark L Wells

### Accomplishments

**\* What are the major goals of the project?**

See attached file

**\* What was accomplished under these goals (you must provide information for at least one of the 4 categories below)?**

Major Activities: See attached file

Specific Objectives: See attached file

Significant Results: See attached file

Key outcomes or See attached file

Other achievements:

**\* What opportunities for training and professional development has the project provided?**

See attached file

**\* How have the results been disseminated to communities of interest?**

See attached file

**Supporting Files**

Filename	Description	Uploaded By	Uploaded On
Final NSF Report.pdf	This file contains the final report with figures	Mark Wells	04/29/2015

## Products

### Books

Nothing to report.

### Book Chapters

Nothing to report.

### Conference Papers and Presentations

Nothing to report.

### Inventions

Nothing to report.

### Journals

Nothing to report.

### Licenses

Nothing to report.

### Other Products

Nothing to report.

### Other Publications

Nothing to report.

### Patents

Nothing to report.

### Technologies or Techniques

Nothing to report.

**Thesis/Dissertations**

Nothing to report.

**Websites**

Nothing to report.

**Participants/Organizations****What individuals have worked on the project?**

Name	Most Senior Project Role	Nearest Person Month Worked
Wells, Mark	PD/PI	1
Tripp, Carl	Co PD/PI	1

**Full details of individuals who have worked on the project:****Mark L Wells**

**Email:** mlwells@maine.edu

**Most Senior Project Role:** PD/PI

**Nearest Person Month Worked:** 1

**Contribution to the Project:** Organization and Scientific strategy

**Funding Support:** This project and the University of Maine

**International Collaboration:** No

**International Travel:** No

**Carl P Tripp**

**Email:** ctrippp@maine.edu

**Most Senior Project Role:** Co PD/PI

**Nearest Person Month Worked:** 1

**Contribution to the Project:** Organization and Scientific strategy

**Funding Support:** This project and the University of Maine

**International Collaboration:** No

**International Travel:** No

**What other organizations have been involved as partners?**

Nothing to report.

**What other collaborators or contacts have been involved?**

Nothing to report

**Impacts****What is the impact on the development of the principal discipline(s) of the project?**

See attached file

**What is the impact on other disciplines?**

See attached file

**What is the impact on the development of human resources?**

See attached file

**What is the impact on physical resources that form infrastructure?**

See attached file

**What is the impact on institutional resources that form infrastructure?**

See attached file

**What is the impact on information resources that form infrastructure?**

See attached file

**What is the impact on technology transfer?**

See attached file

**What is the impact on society beyond science and technology?**

See attached file

---

## Changes/Problems

**Changes in approach and reason for change**

See attached file

**Actual or Anticipated problems or delays and actions or plans to resolve them**

See attached file

**Changes that have a significant impact on expenditures**

See attached file

**Significant changes in use or care of human subjects**

See attached file

**Significant changes in use or care of vertebrate animals**

See attached file

**Significant changes in use or care of biohazards**

See attached file