**LT Vince Kindfuller, USN**

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(973) 580-8454

**EDUCATION**

**University of Rochester**

**M.A.** in History, in progress

**Massachusetts Institute of Technology**

**B.S.** in Nuclear Science and Engineering, **B.S.** in History, 2016 (4.5 GPA on a 5.0 Scale)

Navy ROTC Four-Year Scholarship – Commissioned as a Naval Officer in 2016

**PROFESSIONAL EXPERIENCE**

**Navy Reserve Officer Training Corps, University of Rochester**

**Submarine Warfare Instructor,** 2022-Present

Responsible for the training and preparation of university students at the University of Rochester and several participating universities for commissions into Naval Service. Teach two classes – Introduction to Naval Engineering and Introduction to Naval Weapons Systems. Prepare future nuclear power officers for their nuclear power interviews with the Admiral in charge of Naval Reactors.

**Destroyer Squadron 28**

**Submarine Operations Officer,** 2021 – 2022

Primary Billets: Submarine Operations Officer, Staff Tactical Action Officer, Assistant Materials Officer

Responsibilities: Liaised between submarines and surface ships during operations of the USS Harry S Truman Carrier Strike Group deployment to the European theater under US and NATO Command. Trained seven destroyers in anti-submarine warfare operations. Directed movement and tactical employment of an aircraft carrier, six destroyers, a cruiser and a Norwegian frigate in the Mediterranean Sea during a period of severely heightened tension with Russia. Assisted in the coordination of engineering upkeep and maintenance for seven destroyers.

**USS Boise (SSN 764)**

**Division Officer,** 2018-2021

Primary Billets: Assistant Operations Officer, Information Warfare Officer, Reactor Controls Assistant

Responsibilities: Lead two divisions of fifteen sailors each in the operation and maintenance of Boise’s communication and navigation equipment and Boise’s nuclear reactor instrumentation and control equipment. Qualified as Engineering Officer of the Watch, responsible for the safe operation of the nuclear reactor, and as Officer of the Deck, responsible for the safe navigation and tactical employment of the submarine.

**Navy Nuclear Power Training Program**

**Student,** 2016-2018

Trained and qualified as Engineering Officer of the Watch, responsible for the safe operation of submarine nuclear reactors at sea.

**MIT Department of Nuclear Engineering,**

**Undergraduate Research Opportunities Program**, 2013-2016

Conducted independent research to support the off-shore small modular reactor concept with Professors Neil Todreas, Jacopo Buongiorno and Mike Golay. Conducted research on policy and comparative security threats to off-shore reactors compared to conventional land-based plants.

**Electric Power Research Institute, Charleston S.C.**

**Intern**, Summer 2014

Conducted research for the High Level Waste and Used Fuel group at EPRI. Helped run the EPRI-Vanderbilt Nuclear Fuel Cycle Assessment Workshop at Vanderbilt. Drafted several white papers and fact sheets on various aspects of nuclear technology.

**RESEARCH INTERESTS**

**History:** Institutional, Social and Technological Changes Leading to the Industrial Revolution; the Hanseatic League; Medieval Economics; Early Modern and Late Medieval Europe; Military and Naval History; Ancient History

**Nuclear Engineering:** Small Modular Reactors; Advanced Fission Systems, Core Design, Nuclear Thermal Propulsion; Nuclear Policy

**PUBLICATIONS**

**V. Kindfuller**, “The Effects of Warfare upon Trade: Economic Growth in a War-Torn World, Northern Europe 1000-1700,” Thesis submitted for Bachelor’s Degree in History, Massachusetts Institute of Technology, June 3, 2016

**V. Kindfuller**, “Improvements to the Cheng-Todreas Wire-Wrapped Rod Bundle Friction Factor Correlation in Response to Pin Number and in the Transition Flow Region,” Thesis submitted for Bachelor’s Degree in Nuclear Engineering, Massachusetts Institute of Technology, June 3, 2016

**V. Kindfuller**, N. Todreas, J. Buongiorno, M. Golay, A. Birch, T. Isdanavich, R. Thomas, H. Stevens, “Overview of Security Plan for Offshore Floating Nuclear Plant,” ASME International  Volume 5, Student Paper Competition, June 26, 2016

A. Sowder, R. McCullum, **V. Kindfuller**, “Why Demonstration of a Deep Borehole Disposal Concept Matters to the Nuclear Industry,” ANS Conference on International High-Level Radioactive Waste Management, April 12-16, 2015, Charleston, SC

J. Buongiorno, M. Golay, N. Todreas, A. Briccetti, J. Jurewicz, **V. Kindfuller**, D. Fadel, G. Srinivasan, R. Hannink, A. Crowle, M. Corradini, “Offshore Small Modular Reactor (OSMR): An Innovative Plant Design for Societally Acceptable and Economically Attractive Nuclear Energy in a Post-Fukushima, Post-9/11 World”, Proceedings of the ASME 2014 Small Modular Reactors Symposium, SMR2014, April 15-17, 2014, Washington DC

**SCHOLARSHIPS AND ACADEMIC AWARDS**

Nuclear Energy University Program Scholarship, Department of Energy, July 2013

American Legion Scholastic Excellence Award, MIT, April 2013

National Merit Scholar, Landon School, May 2012

**FORMAL LANGUAGE TRAINING**

**Latin**

Studied through High School

            AP Latin (Virgil): 4

**German**

Studied through High School

Summer abroad as an intern at a research organization conducting research in German

**REFERENCES**

**CAPT Todd C. Zenner, USN – Work Reference**

Commodore

*Destroyer Squadron 28*

Email contact: todd.zenner@cvn75.navy.mil

**CDR Kris Lancaster, USN – Work Reference**

Former Commanding Officer

*USS Boise (SSN-764)*

Email Contact: kris.lancaster@navy.mil

**Professor Anne McCants – Academic Reference**

Professor of History, Thesis Advisor

*Massachusetts Institute of Technology*

Email Contact: amccants@mit.edu

**Professor Neil Todreas – Academic Reference**

Professor of Nuclear Science and Engineering, Thesis Advisor

*Massachusetts Institute of Technology*

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