

synchronized to the Linac Coherent Light Source II project's ray probe pulses with controllable inter-pulse time delay. Justification for Duty-Free Entry: There are no instruments of the same general category manufactured in the United States. Application accepted by Commissioner of Customs: December 17, 2012.

Docket Number: 12-063. Applicant: University of Pittsburgh, 4200 Fifth Avenue, Pittsburgh, PA 15260. Instrument: Dilution Refrigerator with 9/2/2T Vector Superconducting Magnet. Manufacturer: Leiden Cryogenics, the Netherlands. Intended Use: The instrument will be used, in conjunction with the instrument imported under docket 12-065, to develop ways for preserving quantum information in a way that is immune to a wide variety of decoherence mechanisms, to program fundamental couplings at near-atomic scales, for the quantum simulation of "metasuperconductors," and to develop new mechanisms for the transfer of quantum information between long-lived localized states and delocalized states. The samples to be studied are a thin layer of LaAlO<sub>3</sub> (LAO), grown on SrTiO<sub>3</sub>, which undergoes a metal to insulator transition when the LAO thickness is greater than 3 unit cells. The unique features of this instrument are the ability to cool samples to T<50 mK using cryogen-free cooling where possible, an integral cryogen-free 3 axis vector magnet (>5/1/1 T), an integral large field magnet (>18T), the ability to rotate the orientation in a large field, and scanning probe microscopy capability at base temperature (T<50mK). These features enable the sample to be cooled below the superconducting transition temperature (Tc~200mK), to be rotated in any orientation relative to the magnetic fields, allow the investigation of the large spin-orbit field present in the samples (Bso~15T), and on nanometer size scales gate, modify and probe nanowire devices and quantum dot arrays. Justification for Duty-Free Entry: There are no instruments of the same general category manufactured in the United States. Application accepted by Commissioner of Customs: December 12, 2012.

Docket Number: 12-065. Applicant: University of Pittsburgh, 4200 Fifth Avenue, Pittsburgh, PA 15260. Instrument: Motorized Two Axis Sample Rotator for Dilution Refrigerator. Manufacturer: Attocube Systems, Germany. Intended Use: The instrument will be used, in conjunction with the instrument imported under docket 12-063, to develop ways for preserving quantum information in a way that is

immune to a wide variety of decoherence mechanisms, to program fundamental couplings at near-atomic scales, for the quantum simulation of "metasuperconductors," and to develop new mechanisms for the transfer of quantum information between long-lived localized states and delocalized states. The samples to be studied are a thin layer of LaAlO<sub>3</sub> (LAO), grown on SrTiO<sub>3</sub>, which undergoes a metal to insulator transition when the LAO thickness is greater than 3 unit cells. The unique features of this instrument are the ability to cool samples to T<50 mK using cryogen-free cooling where possible, an integral cryogen-free 3 axis vector magnet (>5/1/1 T), an integral large field magnet (>18T), the ability to rotate the orientation in a large field, and scanning probe microscopy capability at base temperature (T<50mK). These features enable the sample to be cooled below the superconducting transition temperature (Tc~200mK), to be rotated in any orientation relative to the magnetic fields, allow the investigation of the large spin-orbit field present in the samples (Bso~15T), and on nanometer size scales gate, modify and probe nanowire devices and quantum dot arrays. Justification for Duty-Free Entry: There are no instruments of the same general category manufactured in the United States. Application accepted by Commissioner of Customs: November 29, 2012.

Dated: December 20, 2012.

**Gregory W. Campbell,**  
*Director of Subsidies Enforcement, Import Administration.*

[FR Doc. 2012-31309 Filed 12-27-12; 8:45 am]

**BILLING CODE 3510-DS-P**

## DEPARTMENT OF COMMERCE

### International Trade Administration

#### **Howard Hughes Medical Institute, et al.; Notice of Consolidated Decision on Applications for Duty-Free Entry of Scientific Instruments**

This is a decision pursuant to Section 6(c) of the Educational, Scientific, and Cultural Materials Importation Act of 1966 (Pub. L. 89-651, as amended by Pub. .106-36; 80 Stat. 897; 15 CFR part 301). Related records can be viewed between 8:30 a.m. and 5:00 p.m. in Room 3720, U.S. Department of Commerce, 14th and Constitution Ave. NW., Washington, DC.

Comments: None received. Decision: Approved. We know of no instruments of equivalent scientific value to the foreign instruments described below, for

such purposes as each is intended to be used, that was being manufactured in the United States at the time of its order.

Docket Number: 12-048. Applicant: Howard Hughes Medical Institute, Chevy Chase, MD 20815. Instrument: Micro-litre and nanolite dispensing system. Manufacturer: TTP Labtech Ltd., United Kingdom. Intended Use: See notice at 77 FR 70141, November 23, 2012. Comments: None received. Decision: Approved. We know of no instruments of equivalent scientific value to the foreign instruments described below, for such purposes as this is intended to be used, that was being manufactured in the United States at the time of order. Reasons: The instrument will be used to obtain crystals of biological macromolecules and complexes such as ribonucleic acid, proteins, and ribosomes to enable the determination of their three-dimensional atomic resolution structures. The unique features of this instrument which are required for the experiments are that it has a disposable tip system, its speed of operation, and its ability to deliver the small drops required to perform the experiments.

Docket Number: 12-049. Applicant: Howard Hughes Medical Institute, Chevy Chase, MD 20815. Instrument: Micro-litre and nanolite dispensing system. Manufacturer: TTP Labtech Ltd., United Kingdom. Intended Use: See notice at 77 FR 70141, November 23, 2012. Comments: None received. Decision: Approved. We know of no instruments of equivalent scientific value to the foreign instruments described below, for such purposes as this is intended to be used, that was being manufactured in the United States at the time of order. Reasons: The instrument will be used to obtain crystals of biological macromolecules and complexes such as ribonucleic acid, proteins, and ribosomes to enable the determination of three-dimensional atomic resolution structures. The unique features of this instrument which are required for the experiments are that it has a disposable tip system, its speed of operation, and its ability to deliver the small drops required to perform the experiments.

Docket Number: 12-050. Applicant: North Carolina State University, Raleigh, NC 27695. Instrument: Twin-screw Microcompounder. Manufacturer: DSM, the Netherlands. Intended Use: See notice at 77 FR 70142, November 23, 2012.

Comments: None received. Decision: Approved. We know of no instruments of equivalent scientific value to the foreign instruments described below, for such purposes as this is intended to be

used, that was being manufactured in the United States at the time of order. Reasons: The instrument will be used to study biomaterials such as starches, lignin, and proteins, and compare them with styrenics and petroleum based materials. The behavior of these materials before, during, and after physical or chemical modification, in excess or limited water, without shear or at high shear, as well as their hydration, plasticization or blending with other oligomers will be investigated. Moreover, foams will be generated by the use of blending a suitable blowing agent and/or the carbonization of the materials to determine their density, foam structure and tensile and compression properties. The goal of this project will be to identify suitable technologies for producing moldable biomass based materials for applications presently occupied by conventional plastics. The core of this research will use rheology, spectroscopies and thermal techniques to follow macromolecular structures and functions on the biopolymers after applying the extruder. The unique features of this instrument are its recirculation loop and its ability to connect to a fiber spinner.

Docket Number: 12-051. Applicant: University of Central Florida, Orlando, FL 32816. Instrument: Near Ambient Pressure Scanning Probe Microscope. Manufacturer: SPECS Surface Nano Analysis, GmbH, Germany. Intended Use: See notice at 77 FR 70141-42. Comments: None received.

Decision: Approved. We know of no instruments of equivalent scientific value to the foreign instruments described below, for such purposes as this is intended to be used, that was being manufactured in the United States at the time of order. Reasons: The instrument will be used to determine the relationships between nanoparticle size, shape and chemical state and their catalytic activity in various chemical reactions, by investigating solid catalytically-active materials such as transition metals and examining their chemical states and chemical reactivity before and after applying a specified pressure and temperature inside a vacuum chamber inside the instrument. The unique features of this instrument include its small volume (0.045 L) reaction cell in which the sample and STM scanner are placed, which can maintain a pressure of up to 100 mbar while the surrounding large volume (>100 L) Ultra-High Vacuum (UHV) chamber maintains a pressure lower than  $10^{-6}$  mbar, allowing the sample to be held at a controlled pressure ranging from UHV up to 100 mbar while

measurements are recorded, and can be easily integrated into a system of other UHV measurement instruments to transfer the sample to other measurement chambers. In addition to pressure control, another unique feature of the instrument is its ability to control the temperature from room temperature to 300 degrees Celsius in a gaseous environment (up to 10 mbar).

Dated: December 20, 2012.

**Gregory W. Campbell,**

*Director, Subsidies Enforcement Office,  
Import Administration.*

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## DEPARTMENT OF COMMERCE

### National Oceanic and Atmospheric Administration

**RIN 0648-XC331**

#### **Fisheries of the Caribbean, Gulf of Mexico, and South Atlantic; Spiny Lobster Fishery of Puerto Rico and the U.S. Virgin Islands; Exempted Fishing Permit**

**AGENCY:** National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

**ACTION:** Notice of receipt of an application for an exempted fishing permit; request for comments.

**SUMMARY:** NMFS announces the receipt of an application for an exempted fishing permit (EFP) from Dr. David Olsen (St. Thomas Fisherman's Association). If granted, the EFP would authorize contracted commercial fishermen to temporarily possess undersized and berried Caribbean spiny lobster for non-lethal sampling (tagging) during the course of their normal fishing activities. This non-lethal sampling would include implanting a tag on each spiny lobster before releasing the lobster with minimal harm. Data will be collected and analyzed to determine spiny lobster growth and movement patterns, and an attempt will be made to estimate the spiny lobster population size in the U.S. Virgin Islands. Currently, data on U.S. Caribbean spiny lobster life history are limited, particularly growth rates and abundance patterns. Additional life history information would provide the Caribbean Fishery Management Council (Council) and NMFS valuable data that may be used for future management of spiny lobster. The EFP would also seek to temporarily retain a sample number of spiny lobsters at a designated facility

for a study to assess tag mortality and retention.

**DATES:** Comments must be received no later than 5 p.m., eastern time, on January 28, 2013.

**ADDRESSES:** You may submit comments on the application by any of the following methods:

- *Email:* [Britni.Tokotch@noaa.gov](mailto:Britni.Tokotch@noaa.gov).

Include in the subject line of the email comment the following document identifier: "Olsen EFP 2012".

- *Mail:* Britni Tokotch, Southeast Regional Office, NMFS, 263 13th Avenue South, St. Petersburg, FL 33701.

The application and related documents are available for review upon written request to any of the above addresses.

**FOR FURTHER INFORMATION CONTACT:**

Britni Tokotch, 727-824-5305; email: [Britni.Tokotch@noaa.gov](mailto:Britni.Tokotch@noaa.gov).

**SUPPLEMENTARY INFORMATION:** The EFP is requested under the authority of the Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. 1801 *et seq.*), and regulations at 50 CFR 600.745(b) concerning exempted fishing.

The described research is part of a life history study of Caribbean spiny lobster and intends to collect data on growth and movement patterns and to estimate the spiny lobster population abundance in the Federal waters of the Caribbean. The study also intends to conduct research on tag mortality and retention on spiny lobsters. Lobsters will be collected using commercial fishing vessels as part of the vessels normal fishing trips in the Federal waters of St. Croix and St. Thomas, U.S. Virgin Islands. Spiny lobsters would be collected within the 100-fathom (183-m) depth contour of these areas using commercial lobster trap gear. The study would take place from the date of effectiveness of the EFP through August 31, 2013, or until the requested number of lobsters have been tagged.

The proposed collection for scientific research involves activities that would otherwise be prohibited by regulations at 50 CFR part 622, as they pertain to Caribbean spiny lobster managed by the Council. The EFP would exempt this research activity from Federal regulations at § 622.32(b)(1)(iii) (Prohibited and limited harvest species) and § 622.37(b) (Size limits).

If granted, the EFP would authorize the tagging of 5,000 spiny lobsters (3,000 from St. Thomas Federal waters and 2,000 from St. Croix Federal waters). Floy spaghetti tags would be attached to the lobster in the gap between the tail and carapace. Tagging would include both legal size lobsters as