# Dr. Steve D’Hondt & Dr. Arthur Spivack KN223 (Long Core)

Pre-Cruise Meeting 08/15/14

Agenda Items

**Mission Objectives:**

Our aim is to obtain as many and as deep jumbo piston cores as possible to investigate the potential temporal variability of hydrothermal activity. Coring sites are currently planned to be in the Mid Atlantic.  We will also try to obtain high resolution multibeam bathymetry out to a crustal age of 2 million years (~40 miles off-axis from the ridge).

## Science Activities

Jumbo piston coring, box cores, multibeam mapping, possibly some wax coring.

**Agenda Items:**

1. Chief Scientist:

Dr. Steven D'Hondt: Chief Scientist, Principal Investigator  
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Arthur Spivack: Principal Investigator  
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+1 401 423 0063  
[spivack@mail.uri.edu](mailto:spivack@mail.uri.edu)

1. Identify operating area:

Mid Atlantic

Lat/Lon: 44° 45.0′ N / 131° 0.0′ W

Depth Range: 2200 / 3200

1. Voyage Info:
   1. **NUMBER**: KN223
   2. **MOB**: October 21th, Woods Hole
   3. **DEPARTURE**: October 25th
   4. **ARRIVA**L: December 2nd Woods Hole
   5. **DEMOB END**: December 4th
2. Schedule Notes:

* Science Personnel can move into their rooms October 24th

1. Science party (size) : \_\_\_\_ (22 bunks available, 10 reserved for WHOI Coring Personnel)

**Pre-cruise and Administrative:**

1. Financial responsibility: Purchase order: to be set up with WHOI

1. Personnel forms: Due: September 25th to kgrodzki@whoi.edu
2. Berthing Plan: Complete and remit to csmith@whoi.edu
3. Any Special Food Requirements? (Kosher, Allergy, Vegetarian, etc)

**Instrumentation & Technician Support**  ***:***

1. **General Duties of Marine Technician :**

SSSG Technicians (WHOI SSSG) Amy Simoneau, Ellen Roosen

WHOI sssg techs do not stand watches. But are available 24/7 to train and to assist in operations.

1. **WHOI general use equipment required for cruise** **:**

**Shipboard Equipment**

* 12 kHz Pinger for Wire Use
* ADCP 300 kHz
* ADCP 75 kHz
* Bathymetry System 12 kHz
* Bathymetry System 3.5 kHz
* Deionized Water System
* Fume Hood
* Gravimeter
* Multibeam
* Science Underway Seawater System
* Sippican XBT System (Mark 21)
* Towed Magnetometer

**Shipboard Communication**

* Basic Internet access via HiSeasNet

**CTD/Water Sampling**

* 911+ Rosette 24-position, 10-liter bottle Rosette with dual T/C sensors
* SBE43 oxygen sensor
* Seapoint STM turbidity sensor
* Wet Labs C\*Star transmissometer (660nm wavelength)
* Wet Labs ECO-AFL fluorometer
* Wet Labs FLNTURTD Combination Flourometer and Turbidity Sensor

**Hydrographic Analysis Equipment**

* Dissolved Oxygen Titration System (Brinkmann Titrator)
* Oxygen Sample Bottles (available in 150 ml sizes)
* Salinometer
* Salt Bottles (2 cases of 125 ml provided)

**MET Sensors**

* Barometric Pressure
* Air temperature
* Precipitation
* Relative Humidity
* Short Wave Solar Radiation
* Wind speed and direction

**Sediment Sampling:**

* Gravity corers
* Jumbo Long Corer
* Multi-core
* Piston corers

**Sample Storage**

* Freezer -20°C
* Freezer -70°C 25 cu. ft.
* Freezer -70°C 3.2 cu. ft. ea.
* Refrigerator 8.6 cu. ft.
* Chest Freezer (Household type) 0°F
* Storage Notes: Need as much cold storage as possible, particularly -70C

**Winches**

* CTD Winch with .322" Electro-mechanical wire

Winch Notes: Need winches necessary for gravity coring, multi-coring, CTD operation and long coring

**Vans**

* Tool Van (Broda)
* Cold Storage Van
* OSU Core Logger Van
* Chem Van (Knorr)

**Ship** ***[Other Requirements][Shipboard Equipment/Nav] :***

1. Science/Ship Operations ***:***
   1. Instrument Deployment / Recovery Procedures:
   2. Over boarding Equipment (ISM)
   3. Vans: 4
   4. Night Operations: Yes
2. Deck Safety – Safety Shoes
3. Lab Safety – PPE
4. Hazardous Material**:** Yes

* Flammable
* Radiological
* Other

\*Complete Radiological authorization with WHOI Safety Department

Please Submit MSDS electronically to csmith@whoi.edu and provide 3 hard copies of each MSDS to the Knorr’s Chief Mate.

1. Policies: (speed, departure/arrival times, moving aboard, etc.)

11kts

1. Communication (voice, fax, e-mail, Blog)

## Logistics *[Notes]*

1. Shipping gear to and from vessel

Load list

* 1. No Customs
  2. Berthing plan:
     1. bunks available (10 reserved for Coring Techs).
  3. Use of ship’s agent or local facilities

Ship’s Agent: Chad Smith

Shipping Address:

R/V Knorr – Dr. Spivack

C/O Chad Smith

WHOI Shipping & Receiving

266 Woods Hole Rd

Woods Hole, MA

02543

**Post-Cruise**:

1. Actions departing ship (Clean rooms, remove items from chemical van)
2. UNOLS cruise evaluation [Chief Scientist & Master]
3. Reports to foreign government/State Department [required for work in EEZs]
4. Data delivery [shipboard] USB Hard drive.
5. Data archiving policy

All data on a WHOI Cruise Data Distribution (which includes all underway data) will, by default be considered publicly available once a copy of it has been delivered to the chief scientist at the end of the cruise. Please review the [Cruise Assignment of Data Access Protection](http://www.sssg.whoi.edu/sssg/pdf/cruiseData_v3.pdf)

As of January 1, 2011, the default treatment for underway data from Woods Hole Oceanographic

Institution (WHOI) research vessels is:

1. Cruise data files are copied by a WHOI SSSG Technician to the distribution media. One copy is delivered

to the cruise Chief Scientist, the other is delivered to WHOI's Data Library and Archives. Please note that

the distribution of cruise data to other scientist is the responsibility of the Chief Scientist.

2. The **default** access status for the cruise instrument datasets is that they will be immediately accessible by

the public. If something other than this default protection is desired, the Chief Scientist must assign

alternate protection as indicated below. For cruises funded by the National Science Foundation ,the

maximum protection is two years, for non-NFS cruises, other guidelines may apply.

3. WHOI maintains a local copy of the cruise shipboard data distribution at its Data Library and Archives,

which also honors access moratorium periods. If the cruise Chief Scientist wishes to modify the data

protection assignments made in this pre-cruise document upon cruise completion, they should contact the

WHOI Data Library and Archives at dla@whoi.edu, or the SSSG Data Manager at

sssgdatamgr@whoi.edu