ANTELOPE SHORT COURSE

Focused workshop – data processing tools and analysis using BRTT tools and python/matlab interface

IRIS/PASSCAL – NEW MEXICO TECH

Presenters

- **Dr. Danny Harvey (BRTT)**
- **Dr. Kent Lindquist (Lindquist Consulting, Inc.)**

Location/Time

- **PASSCAL - Instrument Center** (Socorro, NM)
- Auguts 24th and 25th 2009

Agenda August 24th 2009

Session 1-A- 08:00 - 12:00 a.m
Group 1 – Dr. Danny Harvey

08:30 -10:00- PRESENTATIONS & DEMO

1. A brief history of Antelope
2. Automatic event location with Antelope (locating events with Antelope)

10:00 – 10:15 - break- refreshments provided

10:15 – 12:00 – PRESENTATIONS & DEMO

1. Generalized event-driven processing with Antelope (computing magnitudes with Antelope).
2. Seismic Array Processing with Antelope (performing array processing with Antelope)

12:00 – 13:00 – Lunch provided

13:00 – 15:00 – EXERCISE - Apply learned concepts on your own dataset or provided antelope databases

15:00-15:15 - break - refreshments provided

15:15– 16:00 – Continuation of Exercise session

16:00 – 17:00 – Discussion

Session 1-B- Group 2 - Dr. Kent Lindquist

Python and matlab interface at PIC. Set up for testing on August 25th 2009. Kent Lindquist and Group 2 will join the group when set up is ready.

Agenda August 25th 2009

Session 2 - 08:00 - 12:00 - Dr. Kent Lindquist

08:30 – 10:30 – PRESENTATIONS

1. The Python Interface for Antelope
2. The Antelope Toolbox for Matlab

10:30 – 10:45 - Refreshments

10:45 -12:00 – Exercises (Hands on data)

12:00 – 13:00 - Lunch

Session 3 - 13:00 - 17:00
Dr. Danny Harvey & Dr. Kent Lindquist (Shared Session)

13:00 – 15:15 - Hands on data working groups with Danny and Kent

For this session we will use predefined data sets and/or data from the participants and apply learned concepts, tools, etc.

15:15 – 15:30 - Refreshments

15:30 – 17:00 – DISCUSSION/OTHER QUESTIONS OF INTEREST

END of workshop - Thank you all!

PARTICIPANTS:

NEW MEXICO TECH

- Jonathan MacCarthy
- Hunter Knox
- Julien Chaput
- Richard Sanderson
- Maya El Hariri
- Rene Arechiga
- Jeff Johnson

PASSCAL

- **Data group**
  - Eliana Arias-Dotson
  - George Slad
  - Lisa Foley
- **Sensor Group**
  - Noel Barstow
  - Pnina Miller
  - Cathy Pfeifer (TA)
  - Shane Ingate
- **Software group**
  - Lloyd Carothers
  - Michael Love
  - Steve Azevedo
  - Dave Thomas
- **Polar Group**
  - Tim Parker
- **Transportable Array**
  - Allan Sauter

Computer resources:

- We will have an account set up at PASSCAL on one of our servers for the workshop with all the required software.

- To access this machine and the account, each participant will need to ssh into this server (or TECH server if preferred). We will provide details the day of the workshop.

- IMPORTANT: We request that you please bring your personal laptop to use as a bridge to ssh to our server. We highly recommend using a mac. Please let us know if you are planning on using a different platform so we can have a mac laptop ready for you to use during the workshop.

- We will create a shared area for scripts, etc. If you have a script that you would like to test, please make sure you bring it to the workshop so it can be loaded for its use.

CONTACT:

Please feel free to e-mail us if you have any questions:

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