

**Managing Waveform Data and Metadata for Seismic Networks  
13 - 19 August 2010  
Foz do Iguacu, Brazil**

**L=LECTURE  
C=COMPUTER LAB**

<b>13-Aug-2010</b>	<b>Friday</b>	<b>DURATION</b>			<b>Hotel Bellaitalia</b>
	10:00	2:00	<b>Registration</b>	L	Ms. Gale Cox
	12:00	1:00	<b>Lunch</b>		
	13:00	0:45	<b>Welcome</b> IRIS University of Sao Paulo, Brazil University of San Juan, Argentina  Logistics	L L L  L	Dr. Tim Ahern Dr. Marcelo Assumpcao Dr. Patricia Alverado  Gale Cox
	13:45	0:30	<b>Overview of Sponsors</b> CERESIS  IRIS	L  L	Dr. Daniel Huaco  Tim Ahern
	14:15	0:40	<b>Data Exchange within the FDSN</b> International Federation of Broadband Seismograph Networks ORFEUS IRIS Data Management System	L L L	Gerardo Suarez Reinoud Sleeman Tim Ahern
	14:55	0:30	<b>Break</b>		
	15:25	0:15	<b>Review of Workshop Agenda</b>	L	Tim Ahern
	15:40	1:00	<b>Installation of Seismic Stations</b>	L	Dr. Peter Davis
	16:40	1:30	<b>Modern Seismometry</b> The design of feedback seismometers	L	Prof. Erhard Wielandt
	18:10		<b>Adjourn</b>		

14-Aug-2010	Saturday	DURATION		Room - TBD
	8:30	1:00	<b>Digital Filtering Theory</b>	L Dr. Joachim Wassermann
	9:30	1:00	<b>Digital Filtering Lab</b>	C Joachim Wassermann
	9:30	1:15	<b>Digital Filtering Theory</b>	L Joachim Wassermann
	10:45	0:15	<b>Break</b>	
	11:00	1:15	<b>Digital Filtering Lab</b>	C Joachim Wassermann
	12:15	1:00	<b>Lunch</b>	
	13:15	0:45	<b>Modern Data Acquisition Systems</b> implementation in acquisition systems FIR Filters and downsampling	L Reinoud Sleeman
	14:00	1:00	<b>SEED Metadata and RESP Files</b>	L Mr. Rick Benson
	15:00	1:00	<b>Portable Data Collection Center (PDCC) - Introduction</b> Overview of PDCC Nominal Response Library	L Mr. Chad Trabant Mr. Chad Trabant
	16:00	0:15	<b>Break</b>	
	16:15	0:30	<b>Network Reports</b> FDSN GSN & PASSCAL	L Tim Ahern L Tim Ahern
	16:45	0:45	<b>Network Reports</b> 3 Network Reports from Participants	L various
	17:30		<b>Adjourn</b>	

15-Aug-2010	Sunday	DURATION			Hotel Bellaitalia	
	8:30	0:30	<b>PDCC</b>	Installation	<b>C</b>	Rick Benson
	9:00	1:00	<b>Network Reports</b>	4 Network Reports from Participants		
	10:00	0:15	<b>Break</b>			
	10:15	1:30	<b>PDCC</b>	Information Templates Single Station Producing SEED metadata for Participant Networks for a single station Cloning Seismic Channels	<b>C</b>	Rick Benson
	11:45	1:00	<b>Lunch</b>			
	12:45	1:00	<b>PDCC</b>	Station Wizard	<b>C</b>	IRIS DMC Staff
	13:45	1:00	<b>Seismometer Calibration-Video Lab</b>		<b>L</b>	Erhard Wielandt and Peter Davis
	14:45	0:45	<b>Seismometer Calibration Exercise</b>	curve fitting gain determination	<b>C</b>	Erhard Wielandt and Peter Davis
	15:30	0:15	<b>Break</b>			
	15:45	1:00	<b>Seismometer Calibration Continued</b>		<b>C</b>	Erhard Wielandt
	16:45	0:15	<b>PDCC</b>	Updating Calibration Information using PDCC	<b>C</b>	Chad Trabant
	17:00	0:15	<b>PDCC</b>	Input of Columnar text into PDCC	<b>C</b>	Chad Trabant
	17:15	0:30	<b>Network Reports</b>	2 Network Reports from Participants	<b>L</b>	various
	17:45		<b>Adjourn</b>			

<b>16-Aug-2010</b>	<b>Monday</b>	<b>DURATION</b>		<b>Room - TBD</b>
	8:30	1:30	<b>PDCC</b> Cloning Stations and Building an Entire Network	<b>C</b> Chad Trabant
	10:00	0:15	<b>Break</b>	
	10:15	1:30	<b>PDCC</b> continuation of network building	<b>C</b> IRIS DMC Staff
	11:45	1:00	<b>Lunch</b>	
	12:45	1:00	<b>Validation Tools</b> verseed jEvalResp	<b>L/C</b> Rick Benson
	13:45	1:00	<b>Quality Assurance</b> PQLX QUACK SAC	<b>L</b> Rick Benson
	14:45	0:30	ORFEUS Quality Assurance	<b>L</b> Reinoud Sleeman
	15:15	0:30	IRIS/IDA Quality Assurance	Pete Davis
	15:45	0:30	<b>Break</b>	
	16:15	1:15	<b>Scientific Uses of Modern Seismological Data</b> The Role of Quantitative Seismology in Real Time and Deferred Tsunami Studies	<b>L</b> Prof. Emile Okal
	17:30	0:45	<b>Network Reports</b> 3 Network Reports from Participants	<b>L</b> various
	18:15		<b>Adjourn</b> <i>Distribute Information regarding tour</i>	
<b>17-Aug-2010</b>	<b>Tuesday</b>	<b>DURATION</b>		<b>Room Hotel Lobby</b>
	8:30	all day	<b>Excursion to Foz do Iguacu (meet in hotel lobby at 8:30 with Workshop T-Shirt)</b> Group Photograph	
			<b>Lunch at Foz do Iguacu</b>	
	18:00		<b>Return from Foz do Iguacu</b>	

18-Aug-2010	Wednesday	DURATION		Room - TBD
	8:30	1:30	<b>Conversion of waveforms to miniSEED</b>	C Chad Trabant
	10:00	0:15	<b>Break</b>	
	10:15	0:45	<b>Waveform Data Exchange Real Time Feeds</b> SeedLink Antelope, Earthworm, LISS, and Seisan	L Chad Trabant
	11:00	0:45	<b>SeedLink Server Installation</b>	Chad Trabant
	11:45	1:00	<b>Lunch</b>	
	12:45	1:00	<b>Network Reports</b> 4 Network Reports from Participants	L various
	13:45	0:30	<b>Non-Real Time</b> SEED Request Tools	Tim Ahern
	14:15	1:00	<b>Network Reports</b> 3 Network Reports from Participants	L various
	15:15	0:30	<b>Break</b>	
	15:45	1:00	<b>Scientific Uses of Modern Seismological Data</b> Extracurricular Geophysics: When seismometers and other instruments record what they were not designed to pick up.	L Emile Okal
	16:45	1:00	<b>Measuring Noise</b>	C Erhard Wielandt
	17:45		<b>Adjourn</b>	
	20:00		<b>Workshop Dinner and Reception</b>	

<b>19-Aug-2010</b>	<b>Thursday</b>	<b>DURATION</b>		<b>Room - TBD</b>
	8:30	1:30	<b>An Introduction to Seismological Communication Processor (Seiscomp-3)</b>	L/C Rick Benson
	10:00	0:30	<b>Break</b>	
	10:30	1:30	<b>Seiscomp3 (continued)</b>	L/C Rick Benson & Reinoud Sleeman
	12:00	1:00	<b>LUNCH</b>	
	13:00	2:00	<b>Analysis Tools</b> PQLX SAC MatLab	L/C Chad Trabant
	15:00	1:00	<b>Various Additional Work as Desired</b> Additional PDCC Metadata Problems from sheet Real time data transfer	L/C Rick Benson
	16:00	0:30	<b>Completion of Workshop Evaluation Forms</b>	
	16:30	0:30	<b>Break</b>	
	17:00	0:45	<b>Network Reports</b> 3 Network Reports from Participants	L various
	17:45	0:30	<b>Questions and Answers</b>	C
	18:15	0:30	<b>Final Remarks</b>	Tim Ahern
	18:45		<b>Adjourn</b>	Everyone
<b>20-Aug-2010</b>	<b>Friday</b>	<b>DURATION</b>	<b>Transfer to Airport and Flights Home</b>	