



2019

Seismic Data: Collection, Processing, Modeling and Interpretation

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Suzan van der Lee

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Suzan van der Lee

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Peking University 2019 Geophysics Summer School on
Seismic Data: Collection, Processing and Application

School of Earth and Space Sciences
Peking University, Beijing 100871, China

Time: August 5-9, 2019

Location: Lectures: Sciences Building Rm302(302)

Lab Sessions: No. 2 Science Building Rm2821(2 2821)

Day 1, August 5, morning session: Science Building 302

09:00-09:30 Introduction and Group Photo

09:30-10:30 Lecture 1a: Basic Principles of Seismometry

10:30-10:50 Tea/Coffee Break

10:50-12:00 Lecture 1b: Introduction to Hobby Seismometers

Day 1, August 5, afternoon session: No. 2 Science Building 2821

14:00-17:00 Lab Session 1a: Building Seismometers I

19:00-21:00 Lab Session 1b: Building Seismometers II

Day 2, August 6, morning session: Science Building 302

09:00-10:20 Lecture 2a: Professional Seismometers and Data Management

10:20-10:40 Tea/Coffee Break

10:40-12:00 Lecture 2b: Requesting Data From Global Data Systems like IRIS

Day 2, August 6, afternoon session: No. 2 Science Building 2821

14:00-17:00 Lab Session 2a: Fine-Tuning Seismometers and Data Collection I

19:00-21:00 Lab Session 2b: Fine-Tuning Seismometers and Data Collection II

Day 3, August 7, morning session: Science Building 302

09:00-10:20 Lecture 3a: Seismic Signal Processing

10:20-10:40 Tea/Coffee Break

10:40-12:00 Lecture 3b: Data Processing, Analysis, and Big Data Solutions

Day 3, August 7, afternoon session: No. 2 Science Building 2821

14:00-17:00 Lab Session 3a: Data Processing

19:00-21:00 Lab Session 3b: "Earthquake Detective"

Day 4, August 8, morning session: No. 2 Science Building 2821

09:00-10:20 Lab Session 4a: Finishing and/or Enhancing the Seismometers I

10:20-10:40 Tea/Coffee Break

10:40-12:00 Lab Session 4b: Finishing and/or Enhancing the Seismometers II

Day 4, August 8, afternoon session: Science Building 302

14:00-17:00 Student Presentations.

Day 5, August 9, Science Building 302

09:00-17:00 Joint Presentations with PKU Geophysics Youth Forum.