

**25th NORDIC SEMINAR ON DETECTION SEISMOLOGY
STOCKHOLM AUGUST 23-25, 1994
Sweden**

PROGRAM

**TUESDAY
23 AUGUST**

12.00-14.00 Registration, Karlavägen 100
14.00-14.10 Opening

**SESSION: REGIONAL SEISMICITY
AND SEISMIC HAZARD**
Chairman: *Frode Ringdal*

14.10-14.30 Seismo- and neotectonics in Finnmark, Kola and the southern Barents Sea
H. Bungum, C. Lindholm, A. Dahle and D. Roberts

14.30-14.50 Earthquake activity and its relation to geologically recent motion in Denmark
S. Gregersen, J. Leth, G. Lind and H. Lykke-Andersen

14.50-15.10 New models for spectral strong motion attenuation in Central America
A. Dahle, H. Bungum, C. Lindholm, A. Climent, W. Taylor, P. Santos, M. Ciudad-Real, W. Strauch and F. Segura

15.10-15.30 Use of digital accelerometers in Central America
M. Villagran

15.30-15.50 Coffee break

15.50-16.10 Regional and local earthquake hazard studies for Central America
C. Lindholm, H. Bungum, A. Dahle, W. Rojas, E. Camacho, M. Laporte and H. Cowan

16.10-16.30 Assessment of local site effects: A review of the empirical estimation techniques and the type of data used
K. Atakan

16.30-16.50 Absolute and relative locations of similar events with application to microearthquakes in South Iceland.
R. Slunga, S.Th. Rögnvaldsson and R. Bödvarsson

16.50-17.10 Near real time magnitude estimation
E. Husebye

19.00 Boat Trip

**WEDNESDAY
24 AUGUST**

SESSION: DETECTION SEISMOLOGY
Chairman: *Jørgen Hjelme*

09.00-09.20 Status of planning for GSETT-3
S. Mykkeltveit

09.20-09.40 Hagfors-NORSAR
A new link for cooperation in detection seismology
N-O. Bergkvist

09.40-10.00 Noise characteristics and detection capability of FINESS array
M. Tarvainen, T. Tiira and A. Tuppurainen

10.00-10.20 Refurbishment of the NORSAR teleseismic array and new processing techniques
J. Fyen

10.20-10.40 Coffee break

10.40-11.00 Threshold monitoring and generalized beamforming at the International Data Center
F. Ringdal

11.00-11.20 Source characterization in the ISMS
P. Johansson

11.20-11.40 Discrimination of nuclear explosions and earthquakes from Semipalatinsk and Nevada regions with neural networks
T. Tiira

11.40-12.00 Fast and robust order based detection
A. Lindfors and R. Roberts

12.00-13.00 Lunch break

SESSION: SIL AND THE SEISMICITY IN ICELAND
Chairman: *Urmás Luosto*

13.00-13.20 Strainwaves
R. Stefansson, K. Agustson and P. Halldorsson

13.20-13.40 Some aspects of the SIL-system and its extension to the North of Iceland
S. Jakobsdottir

13.40-14.00 Principles for the automatic multi-site analysis
R. Slunga

- 14.00-14.20 The earthquake sequence in North of Iceland in February 1994 and the OBS-measurements
G.B. Gudmundsson, S. Jakobsdottir and R. Stefansson
- 14.20-14.40 Application of genetic algorithms in the SIL project
R. Bödvarsson
- 14.40-15.00 Coffee break
- 15.00-15.20 Local site effects in the South Iceland seismic zone
K. Atakan

SESSION: TOPICS RELATED TO SEISMOLOGY
Chairman: *Ragnar Slunga*

- 15.20-15.40
E. Husebye
- 15.40-16.00
R. Arvidsson
- 16.00-16.20
J. Havskov
- 16.20 Visit to the Group of Seismology
- 18.00 Reception at the Ministry of Foreign Affairs

**THURSDAY
25 AUGUST**

SESSION: CRUSTAL STUDIES
Chairman: *Steinunn Jakobsdottir*

- 09.00-09.20 Crustal structure along the SVEKA'91 profile
U. Luosto and the Working Group
- 09.20-09.40 Crustal structure of the archaen Kuhmo greenstone belt, Finland
J. Yliniemi, E.J. Luukkonen and J.M. Jokinen
- 09.40-10.00 Moho reflections from DSS-shots in southern Finland
T. Hyvönen
- 10.00-10.20 Depth of the brittle ductile boundary in the Icelandic crust
R. Stefansson, G.B. Gudmundsson and R. Slunga
- 10.20-10.40 Coffee break
- 10.40-11.00 Teleseismic tomography experiment across the Tornquist zone
S. Gregersen
- 11.00-11.20 Relevance of crustal models in view of 2D FD synthetics
E. Husebye
- 11.20-11.40 Interpretation in statu nascendi of inhomogeneities in seismic wide-angle reflection seismograms
S. Gregersen, H. Thybo and E. Perchuc
- 11.40-11.50 Closing remarks

POSTERS

Short-period local wave propagation in Iceland
Kristin Vogfjörd

Three-component short-period noise survey of Zambian seismic network
Seppo E. Pirhonen

The SIL data acquisition and monitoring system
R. Bödvarsson, S. Jakobsdottir and R. Stefansson