

7th ESF Impact meeting
◁>Svalbard, Norway, Aug. 29 – Sept. 2, 2001

PROGRAM

Tuesday 28. August

Premeeting Gardnos excursion

Guide: JOHAN G. NATERSTAD

- 11.00 Departure from Quality Airport Hotel and Oslo Airport, Gardermoen
 - 14.00 Lunch at Thon Hotel, Nesbyen
 - 15.00 Excursion to the Gardnos Crater
 - 19.00 Dinner at Thon Hotel, Nesbyen
 - 23.00 Arrival at Quality Airport Hotel, Gardermoen
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Wednesday 29. August

- 08.50 Departure from Oslo Airport, Gardermoen
 - 13.10 Arrival at Longyearbyen Airport
Bus transport to Radisson SAS Polar Hotel for check-in
 - 15.00 Registration, opening, introductory lectures about Svalbard, at UNIS
 - 16.00-17.15 Opening of meeting by MONICA KRISTENSEN SOLÅS.
The geology of Svalbard presented by ATLE MØRK and OLAFUR INGOLFSON.
 - 17.15-19.00 Icebreaker at UNIS
 - 19.00 Dinner in Restaurant Nansen
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Thursday 30. August

- 07.00 Breakfast
- 08.30 Excursion to the Janusfjellet Mountain and Sassenfjorden, by boat. Pickup-time by bus, at the hotel 08.20
Excursion guide in abstract book
Lunch on board.
- 19.00 Dinner in Restaurant Nansen

Friday 31. August

07.00 Breakfast

08.30

08.30-09.10 KYTE, F.T: Ejecta from ocean impacts.

09.10-09.30 CLAYES, P: The Chicxulub proximal ejecta blanket.

09.30-09.50 ROBIN, E., ROCCHIA, R., SIRET, D. & DYPVIK, H:
Discovery of nickel-iron oxide particles in the ejecta-bearing strata of the late Jurassic Mjølnir meteorite impact (Barents Sea).

09.50-10.10 KOEBERL, C., HUBER, H. & SEPHTON, M: Iridium anomaly at the Permo-Triassic boundary: An extraterrestrial component?

10.10-10.30 MARINI, F: Magnetic, ultra-micro spherules at the Permian-Triassic transition (Bükk Mountains, Hungary): present data and perspectives.

10.30 Coffee break at UNIS

11.00 Poster mounting

12.00 Lunch in Restaurant Nansen

13.00 Poster session: Oral poster presentations at UNIS. Each presentation: 3 minutes.

1. DETRE, C.H., DETRE, Ö.H. & CSONTOS, A: Terrestrial and interstellar causes of the Permo-Triassic catastrophe.
2. DETRE, C.H., KALAFUT, M., DETRE-LOMBAY, K., CSONTOS, A. & DETRE, Ö.H: Giant buried meteorite crater identified by geomagnetic data in South-West Hungary.
3. DI MARTINO, M. & DI STADIO, F: The Impact Crater Survey (ICS) project.
4. FRANZÈN, L.G: Interpretation of an oblique meteorite impact origin for the formation of the King's Trough Complex, North-East Atlantic.
5. HESSELBO, S.P., ROBINSON, S.A. & SURLYK, F: The Triassic-Jurassic boundary event: Linking the terrestrial and marine records.
6. LONGO, G., BONATTI, E., DI MARTINO, M., FOSCHINI, L. & GASPERINI, L: Exploring the site of the Tunguska impact.
7. MARJANAC, T., TOMSA, A.M. & MARJANAC, L: Preliminary evidence of impact origin of the Krk-Breccia, Island of Krk, Eastern Adriatic.
8. MØRK, A. & VIGRAN, J.O: The Permian - Triassic boundary on Svalbard.
9. PÁLFY, J: Search for ejecta of the Puchezh-Katunki impact crater: Key to evaluate a hypothetical extinction-impact connection.
10. RIMSA, A., MOTUZA, G. & VON DALWIGK, I: The Middle Devonian Narva Breccia

in

East European Craton: A distant effect of the Kaluga impact event?

11. SUUROJA, K. & SUUROJA, S: Kärđla (Estonia, Hiiumaa Island) impact crater and the Geotrail.

12. SUUROJA, S. & SUUROJA, K: The distal effects of the Neugrund (Estonia, Gulf of Finland) impact.

13. VON DALWIGK, I., ORMÖ, J., LINDSTRÖM, M. , STURKELL, E.F.F. & TÖRNBERG, R:

Lockne: A well-displayed marine-target crater in Central Scandinavia.

14.00-15.30 Poster time with coffee break at 15.00, UNIS

15.30 Free time

20.00 Dinner. Dinner on your own (not included). An Arctic Dinner is arranged at cost at Huset (optional)

Saturday 1. September

07.00 Breakfast

09.00 *Icy impacts and icy targets*

09.00-09.40 LELIWA-KOPYSTYNSKI, J. & BURCHELL, M.J: Impact cratering of the icy/mineral targets: Review of the experiments and application to planetary sciences.

09.40-10.00 BURCHELL, M.J., JOHNSON, E. & GREY, I: Estimating crater size for hypervelocity on small icy bodies (e.g. comet nucleus).

10.00-10.20 GREY, I. & BURCHELL, M.J: A review of the Program of Hypervelocity Impacts into Ices at the University of Kent.

10.20-10.40 LORENZ, R: Titan : A new world of submarine craters, craters in ice, and crater-ejecta correlations.

10.40 Coffee break at UNIS

11.00

11.00-11.20 MANN, J., BURCHELL, M.J., BRANDÃO, P., BUNCH, A. & GREY, I.: Survivability of bacteria in hypervelocity impacts on ice.

11.20-11.40 SIRET, D. & ROBIN, E: Meteorite impact on icy target: Nature and amounts of condensate and gas emissions.

11.40-12.00 Round-table discussion, BURCHELL, M.J: What planetary geologists / scientists

want

from ice impact studies and what laboratory experiments, hydrocodes and analytic techniques can deliver.

12.00 Lunch in Restaurant Nansen

13.00 Excursions: P/T boundary-trip to Sassen/Festningen, Nordenskiöldfjell along the Longyear Glacier,
EISCAT-station, Svalbard Museum.

19.00 Dinner in Restaurant Nansen

Sunday 2. September

07.00 Breakfast

08.30 Poster session: Oral poster presentations at UNIS

08.30-09.10 DYPVIK, H: The Mjølnir Impact - an introduction.

1. TSIKALAS, F., FALEIDE, J.I., GUDLAUGSSON, S.T. & ELDHOLM, O: From Mjølnir "Structure"

to Mjølnir "marine impact crater": Review of a decade of geophysical research.

2. TSIKALAS, F., FALEIDE, J.I., ELDHOLM, O. & DYPVIK, H: Seismic correlation of the Mjølnir
marine impact crater to shallow boreholes.

3. BREMER, G.M.A., DYPVIK, H., SMELROR, M. & NAGY, J: Biotic responses to the marine Mjølnir
meteorite impact (Volgian-Ryazanian boundary, Barents Sea).

4. BREMER, G.M.A., NAGY, J. & DYPVIK, H: Searching the foraminiferal succession for responses to
the Mjølnir meteorite impact.

5. SANDBAKKEN, P.T. & DYPVIK, H: The Mjølnir Crater - A core description.

6. SHUVALOV, V., DYPVIK, H. & TSIKALAS, F: Numerical simulations of the Mjølnir
marine impact.

7. WOLBACH, W.S., WIDICUS, S. & DYPVIK, H: A preliminary search for evidence of impact-related
burning near the Mjølnir impact structure, Barents Sea.

09.30-12.00 Poster time with coffee break at 10.30, UNIS

12.00 Lunch in Restaurant Nansen

13.00

13.00-13.40 SMIT, J: Coarse clastic, intermediate-distal ejecta deposits in the surroundings of
Chicxulub
crater: Tsunami or gravity flow origin?

13.40-14.00 BUFFETAUT, E: Is there any evidence of a terminal Jurassic impact generated tsunami

deposit in the Boulonnais (Northern France)?

14.00-14.20 VON DALWIGK, I. & ORMÖ, J: The formation of resurge gullies during impacts at sea;

The Lockne Crater, Sweden.

14.20-14.40 GASPERINI, L., ALVISI, F., BIASINI, G., BONATTI, E., DI MARTINO, M., MORIGI, C.,

LONGO, G., PIPAN, M., RAVAIOLI, M., SACCHETTI, F., SACCHI, M., & VIGLIOTTI, L: Geophysical/sedimentological study of a lake close to the epicenter of the great 1908 Siberian (Tunguska) Explosion.

14.40-15.00 KENKMANN, T: Modes of strength degradation during impact crater collapse inferred

from microstructural investigations.

15.00 Coffee break at UNIS

15.30

15.30-15.50 ANDERSEN, T: Origin and significance of hydrocarbon fluid inclusions in minerals from

marine impact breccias in the Baltic Shield.

15.50-16.10 GILMOUR, I., FRANCHI, I.A., FRENCH, B.M. & KOEBERL, C: Electron microscopy,

stable isotope geochemistry and raman spectroscopy of carbon phases from the Gardnos impact

structure, Norway.

16.10-16.30 KING Jr., D.T., NEATHERY, T.L., PETRUNY, L.W., HAMES, W.E. & KOEBERL, C:

Wetumpka, a Late Cretaceous shallow-shelf impact structure in the Gulf Coastal Plain of Alabama, USA.

16.30-16.50 SHARPTON, V.L., MINYUK, P.S., GLUSHKOVA, O.Yu., SMIRNOV, V.N., LAYER, P.,

NOLAN, M. & STONE, D: Elgygytgyn crater morphology and significance.

18.00 Dinner in Restaurant Nansen

Monday 3. September

Transfer to Longyearbyen Airport by bus

05.30 Departure from Longyearbyen Airport with arrival at Oslo Airport Gardermoen at 08.30.
