Schedule of Compact Course "Crustal Rock Stress",

held at the Institute of Geonics AS CR, Ostrava, Czech Republic, 13-15 September 2010

Presenters: GEONICS, OS=Ove Stephansson, YO=Yuzo Obara and AZ=Arno Zang

Monday, Sep 13th 2010 – ROCK STRESS BASICS 9:00-10:30 Welcome to the Course OS and AZ. Introduction to Rock Stress, Stress Field of the Earth's Crust, and Rock Stress Terminology, OS 10:30-11:00 coffee break 11:00-12:30 Stress Definition, Rock Fracture I (Introduction, Strength, Failure Criteria), AZ 12:30-13:30 lunch break 13:30-15:00 Rock Fracture II (Nucleation, Linear and Non-linear Fracture Mechanics), AZ 15:00-15:30 coffee break 15:30-16:15 Visit to GEONICS Rock Testing Laboratory 16:15-17:00 Crustal Stress Models, AZ

Welcome dinner Restaurant Techno-Park, Ostrava Poruba

Tuesday, Sep 14th 2010 – MEASURING STRESS

18:30

9:00-10:30	Borehole Methods (Elastic Strain Relief Methods, Movies M6.1 and M6.2), OS
10:30-11:00	coffee break
11:00-12:30	CCBO technique and its applications, Cross-sectional Borehole Deformation
	Method (CBDM), YO
12:30-13:30	lunch break
13:30-15:00	Hydraulic Methods (Hydraulic Fracturing, HTPF, Sleeve Fracturing, Movie
	M7.1), OS
15:00-15:30	coffee break
15:30-16:30	GEONICS: Rock Stress Measurements and Evaluation – studies in Ostrava-
	Karvina Mining District (P. Koníček); Use of Inverse Analysis for Rock Stress
	Evaluation (J. Malík); Visit to GEONICS Laboratory
16:30-17:00	Borehole Breakouts and Application to Stresses, OS

Wednesday, Sep 15th 2010 – INTERPRETING STRESS DATA

9:00-10:30	Core-Based Methods (Inelastic Strain Recovery, Kaiser Effect) and KTB Stress
	Data, AZ
10:30-11:00	coffee break
11:00-12:30	Local Stress Data (Olkiluoto, SAFOD and others), OS
12:30-13:30	lunch break
13:30-15:00	World Stress Map, OS and European Stress Map (Orientation and Smoothing),
	AZ; Best Estimate Stress Model and Final Rock Stress Model, OS
15:00-15:30	coffee break
15:30-16:30	General Discussion about Rock Stress in Science and Engineering, GEONICS,
	OS, YO, AZ
16:30-17:00	Epilogue, Conclusions and Closure, OS and AZ