



# 9th International Symposium on Ice Drilling Technology

## Monday 15 September 2025

### **Oral sessions: Ice core handling I - Lecture Hall H (09:45 - 10:25)**

time	[id] title	presenter
09:45	[73] THE CURATION OF ICE CORES AT AWI	FREITAG, Johannes
10:05	[79] THE BELDC ICE CORE PROCESSING WORK FLOW	KREBS, Manuela

### **Oral sessions: Ice core handling II - Lecture Hall H (10:45 - 11:05)**

time	[id] title	presenter
10:45	[43] Field Processing of Ice Cores at Dome Fuji: An Overview of Three Drilling Periods and the Ongoing Third-Phase Project	FUJITA, Shuji

### **Oral sessions: Logistics - Lecture Hall H (11:05 - 12:05)**

time	[id] title	presenter
11:05	[10] CoreCaster: A Probabilistic Simulator for Ice Drilling Campaign Planning	VEALE, James
11:25	[21] REWIND: BRITISH ANTARCTIC SURVEY ICE CORE DRILLING PROJECT	FISHER, Emma

### **Oral sessions: Subglacial drilling and sampling I - Lecture Hall H (12:30 - 13:30)**

time	[id] title	presenter
12:30	[42] RAPID DRILLING THROUGH DEEP ICE INTO BEDROCK IN ANTARCTICA: RESEARCH PROGRESS AND FUTURE PLAN	WANG, Rusheng
12:50	[33] WINKIE DRILL - DEVELOPMENT AND DRILLING IN WEST ANTARCTICA	MORAVEC, Elliot
13:10	[30] GREENDRILL PROJECT – SUBGLACIAL ROCK CORING IN GREENLAND	KUHL, Tanner

# Tuesday 16 September 2025

## **Oral sessions: Subglacial drilling and sampling II - Lecture Hall H (09:05 - 10:05)**

time	[id] title	presenter
09:05	[4] PROGRESS AND LEARNINGS OF THE ICE AND SUBGLACIAL BEDROCK DRILLING PROJECT IN PRINCESS ELIZABETH LAND, EAST ANTARCTICA	ZHANG, Nan
09:25	[9] A NEWLY DEVELOPED MUTI-PROCESS DRILLING SYSTEM (MPDS) FOR SUBGLACIAL BEDROCK SAMPLING BENEATH POLAR ICE SHEET: DESIGN AND PRELIMINARY TEST	LI, Yazhou
09:45	[70] The importance of preserving basal ice under appropriate subdued red-orange-light conditions for reconstructing past ice-sheet retreats and advances	WESTHOFF, Julien

## **Oral sessions: Probes - Lecture Hall H (10:05 - 10:25)**

time	[id] title	presenter
10:05	[19] TRIPLE AND THE RETRIEVABLE MELTING PROBE TRIPLE-ICECRAFT	HEINEN, Dirk

## **Oral sessions: Borehole logging and in-situ observations - Lecture Hall H (10:45 - 11:25)**

time	[id] title	presenter
10:45	[78] INCLINOMETER APPLICATIONS USING ENCAPSULATED ACCELEROMETER DATA CALIBRATED FOR VARYING MEGAPASCAL PRESSURE AND CRYO-TEMPERATURE CONDITIONS	VAFADARMIANVELAYAT, Mohammad
11:05	[72] Three generations of borehole loggers	DAHL-JENSEN, Dorte

## **Oral sessions: Directional drilling - Lecture Hall H (11:25 - 11:45)**

time	[id] title	presenter
11:25	[60] The Danish Replicate Drilling System – Results from the First Field Test	BOECKMANN, Grant Vernon

## **Oral sessions: Mechanical ice drilling I - Lecture Hall H (11:45 - 12:05)**

time	[id] title	presenter
11:45	[81] THE BELDC DEEP DRILLING OPERATION TO BEDROCK	Prof. WILHELMS, Frank

## **Oral sessions: Mechanical ice drilling II - Lecture Hall H (12:25 - 13:25)**

time	[id] title	presenter
12:25	[64] Drilling 613 m through Muller's Ice Cap, Arctic Canada - advances in drill equipment and camp infrastructure	WESTHOFF, Julien
12:45	[75] Technical Innovations of the BEOI Field Seasons	LEMBURG, Johannes
13:05	[55] CHALLENGES IN ICE CORE DRILLING ON TEMPERATE ICE CAPS	THORSTEINSSON, Thorsteinn

# Wednesday 17 September 2025

## **Oral sessions: Mechanical ice drilling III - Lecture Hall H (09:05 - 10:25)**

time	[id] title	presenter
09:05	[74] Resilient gear design for deep ice drilling systems	LEMBURG, Johannes
09:25	[69] ITERATIVE IMPROVEMENTS TO THE CHIP TRANSPORT PUMP USED IN THE BEOI'S DEEP ICE CORE DRILLING PROJECT	HÜTHER, Matthias
09:45	[67] A NEW DYNAMOMETER FOR TESTING ICE CORE DRILL MOTORS AND GEARS	HÜTHER, Matthias
10:05	[66] THE CHALLENGES INVOLVED IN DEVELOPING A POWER SUPPLY, COMMUNICATION SYSTEM AND DRIVE UNIT FOR A DEEP ICE CORE DRILLING RIG.	HÜTHER, Matthias

## **Oral sessions: Mechanical ice drilling IV - Lecture Hall H (10:45 - 12:05)**

time	[id] title	presenter
10:45	[77] DRILLHEAD CONFIGURATIONS AND MAINTENANCE IN THE BEOI'S DEEP ICE CORE DRILLING PROJECT	LAWER, Gunther
11:05	[68] INCREASING THE DRILLING SPEED IN BEOI DEEP ICE CORING BY DRILLING ICE CORES OF UP TO 4.5 METRES IN LENGTH	HÜTHER, Matthias
11:25	[65] EGRIP Drilling 2016-2024	POPP, Trevor
11:45	[28] 700 DRILL DEVELOPMENT AND FIELD PERFORMANCE	JOHNSON, Jay

## **Oral sessions: Complicated conditions - Lecture Hall H (12:25 - 13:25)**

time	[id] title	presenter
12:25	[27] Selection of Ice Core Drilling Sites in the Grove Mountains Blue ice Area, East Antarctica	Prof. TANG, Xueyuan
13:05	[32] UNIQUE CHALLENGES OF DRILLING OLD, SHALLOW ICE AT ALLAN HILLS	HAALA, Andrew

# Thursday 18 September 2025

## **Oral sessions: Sampling and clean technologies - Lecture Hall H (09:05 - 09:45)**

time	[id] title	presenter
09:05	[57] The CASCA project and its initial development for clean access to Subglacial Lake Cheongsuk, East Antarctica	KIM, Mincheol
09:25	[53] TRIPLE-ICECRAFT: A PLATFORM FOR SCIENTIFIC ACCESS TO DEEP ICE – ANTARCTIC RESULTS AND FUTURE OPPORTUNITIES	ESPE, Clemens

## **Oral sessions: Hot water drilling I - Lecture Hall H (09:45 - 10:25)**

time	[id] title	presenter
09:45	[40] DEEP RAPID ACCESS DRILLING: SURFACE CONTROL SYSTEM DESIGN	Mr SHEN, Zhaokang
10:05	[3] STUDY ON THE FORMATION MECHANISM OF DEEP HOT-WATER DRILLING BACKWATER CAVITY	Mr WANG, Liangyu

## **Oral sessions: Hot water drilling II - Lecture Hall H (10:45 - 12:05)**

time	[id] title	presenter
10:45	[15] DESIGN AND TESTING OF ARAMID/NYLON REINFORCED COMPOSITE PIPES FOR LARGE-DEPTH HOT WATER DRILLING	ZHANG, zaixing
11:05	[47] Resurrection of the Enhanced Hot Water Drill for the IceCube Upgrade Project	NESBIT, Jake
11:25	[5] GENERAL CONCEPT AND LABORATORY TESTING OF A DEEP HOT-WATER DRILLING SYSTEM FOR ACCESSING SUBGLACIAL LAKE QILIN IN EAST ANTARCTICA	TALALAY, Pavel
11:45	[76] Development and Field Deployment of the HWD700 Hot Water Drill for Subglacial Instrumentation on a Land-Terminating Glacier of the Greenland Ice Sheet	PIARD, Luc

## **Oral sessions: Hot water drilling III - Lecture Hall H (12:25 - 13:25)**

time	[id] title	presenter
12:25	[36] WINCH AND HOSE SYSTEM OF LARGE-DEPTH HOT WATER DRILL	LI, Bing
12:45	[34] British Antarctic Survey, Recent Hot Water Drilling Activities	ANKER, Paul
13:05	[20] ADVANCING SUBGLACIAL SCIENCE: A BRIEF HISTORY OF HOT WATER DRILLING AT BRITISH ANTARCTIC SURVEY	MAKINSON, Keith

# Friday 19 September 2025

## **Oral sessions: Hot water drilling IV - Lecture Hall H (09:05 - 09:25)**

time	[id] title	presenter
09:05	[39] DEEP RAPID ACCESS DRILLING: DOWNHOLE DRILLING PARAMETER MEASUREMENT SYSTEM DESIGN	Mr MIAO, Xinyu

## **Oral sessions: Rapid access drilling I - Lecture Hall H (09:25 - 10:25)**

time	[id] title	presenter
09:25	[83] BigRAID – an 11.2" diameter version of the BAS Rapid Access Isotope Drill	POLFREY, Scott
09:45	[46] Fast Dry Borehole Drilling and Bulb Formation with the Askaryan Radio Array Hot Water Drill	OXBOROUGH, Lexi
10:05	[12] Tere Tipako Tio Rapid Ice Sampling Aotearoa	MACFARQUHAR, Jessica

## **Oral sessions: Rapid access drilling II - Lecture Hall H (10:45 - 11:45)**

time	[id] title	presenter
10:45	[41] RAPID ICE DRILLING AND CONTINUOUS CORING WITH AIR REVERSE CIRCULATION IN ANTARCTUCA: SYSTEM DESIGN AND RESEARCH PROGRESS	WANG, Rusheng
11:05	[82] Drilling for the Radio Neutrino Observatory in Greenland (RNO-G): field performance of BigRAID	TOSI, Delia
11:25	[49] RAID - NEW OPPORTUNITIES FOR DEEP ICE-SHEET RESEARCH AND RAPID SUBGLACIAL ACCESS DRILLING	JOHNSON, Jay

## **Oral sessions: Special aspects I - Lecture Hall H (11:45 - 12:05)**

time	[id] title	presenter
11:45	[61] USING SNOW AS CONSTRUCTION MATERIAL FOR UNDERGROUND TRENCHES, CABLE DUCTS, SNOW FOUNDATIONS AND AIRCRAFT HANDLING AREAS	Prof. STEFFENSEN, Jørgen Peder

## **Oral sessions: Special aspects II - Lecture Hall H (12:25 - 13:25)**

time	[id] title	presenter
12:25	[71] DEVELOPMENT OVERVIEW OF POWER SUPPLY AND CONTROL UNITS FOR SHALLOW ICECORE DRILLING WINCHES AT AWI (~2010-2025)	BROY, Benjamin
12:45	[29] ADVANCEMENTS IN DRILL SYSTEM ELECTRONICS	STEFANINI, Umberto
13:05	[31] HIGH-ALTITUDE THERMAL DRILLING	MORAVEC, Elliot