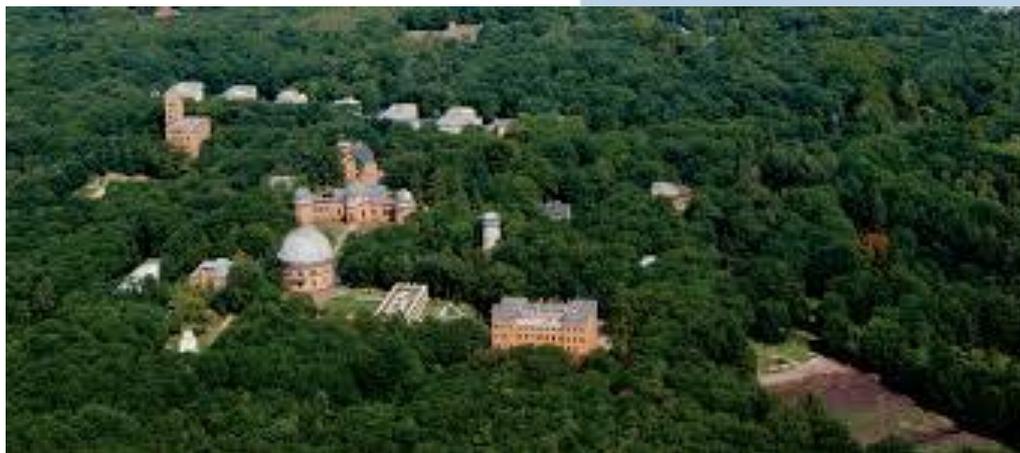


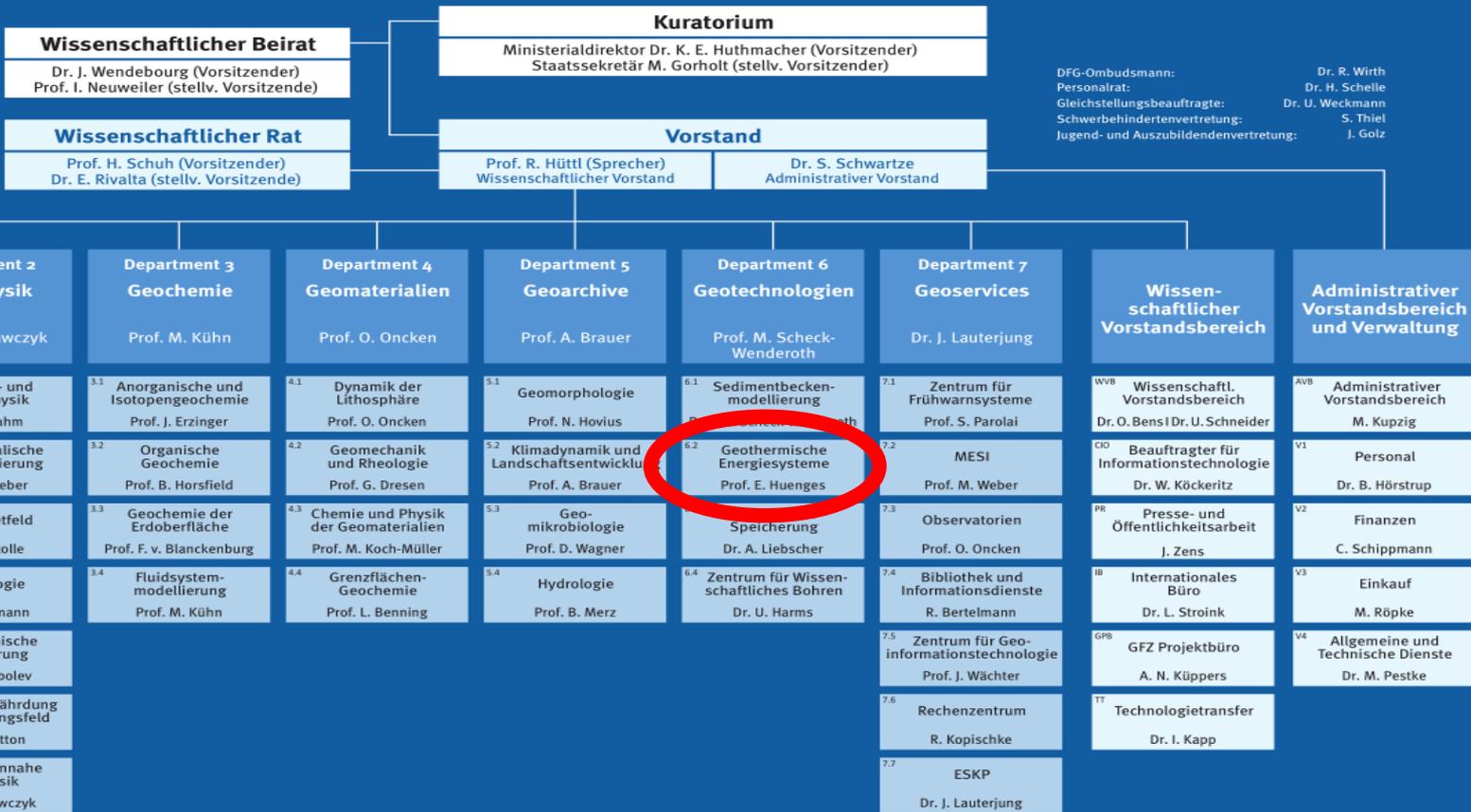
OVERVIEW OF GFZ-ICGR ACTIVITIES ON GEOTHERMAL FLUIDS

Simona Regenspurg

International Centre for Geothermal Research (ICGR)

Helmholtz-Zentrum Potsdam
**DEUTSCHES
GEOFORSCHUNGSZENTRUM**





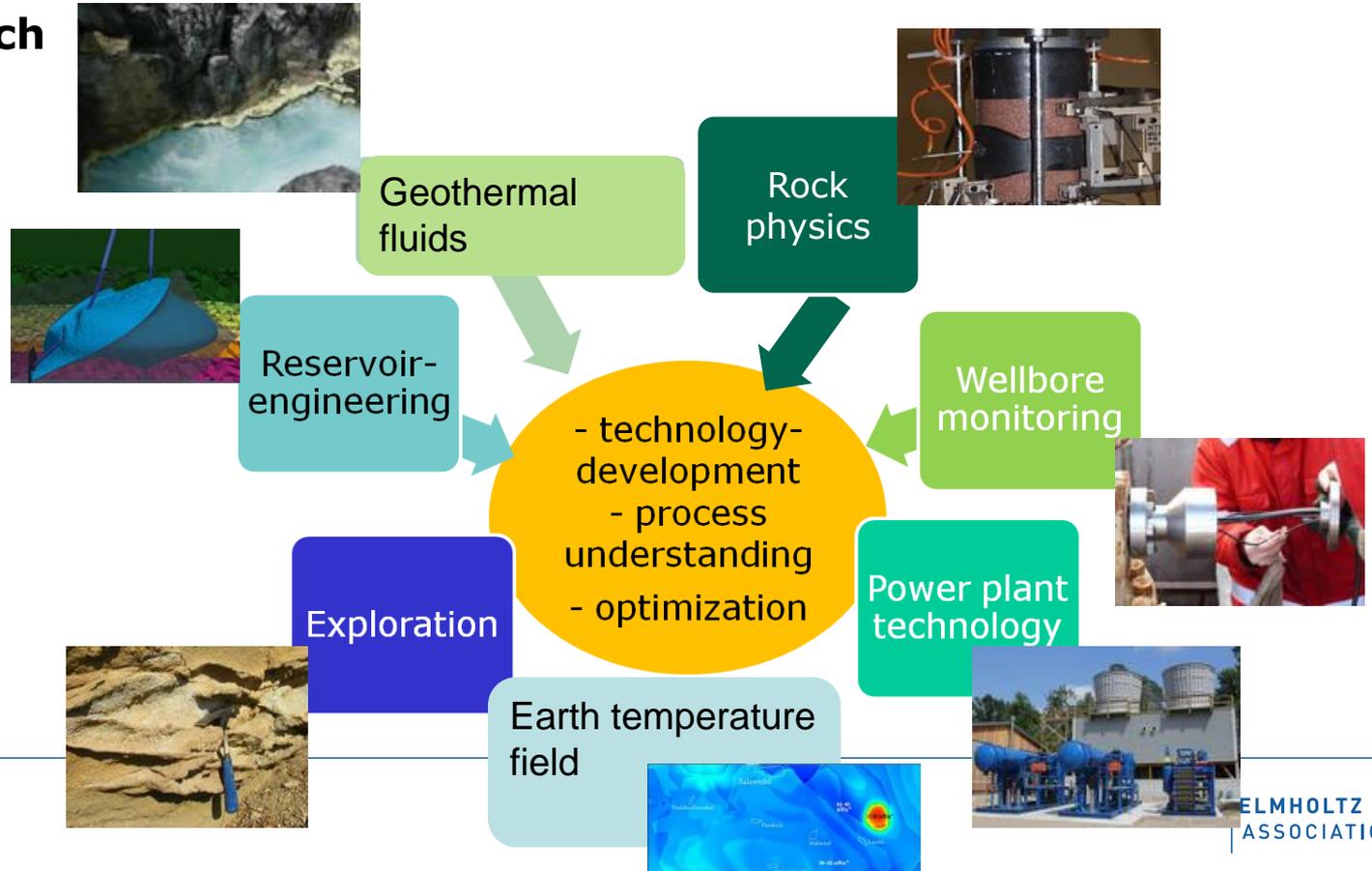
DFG-Ombudsmann:
Personalrat:
Gleichstellungsbeauftragte:
Schwerbehindertenvertretung:
Jugend- und Auszubildendenvertretung:

Dr. R. Wirth
Dr. H. Schelle
Dr. U. Weckmann
S. Thiel
J. Golz

Geothermal Energy at GFZ

International Centre for Geothermal Energy Geothermie Zentrum

Holististic Approach





GFZ –ICGR as partner or coordinator in current EU projects



Geothermal fluids

Simona Regenspurg, Harald Milsch

Maren Brehme
Dejene Driba
Jörg Zotzmann
Ulrike Hoffert
Daniel Müller
Tanja Ballerstedt

Research Topics

Fluid
Chemistry



Fluid
Physics



Fluid
Monitoring



Geochemistry at the ICGR

Goals

1. Chemical reactions during fluid processing → Scaling and corrosion
2. Environmental issues (toxic, radioactive compounds)
3. Scaling prevention strategies: inhibitors, enhanced & controlled precipitation
4. Prediction: geochemical modeling
5. Exploration: Information on fluid origin and temperature

Methods and instruments

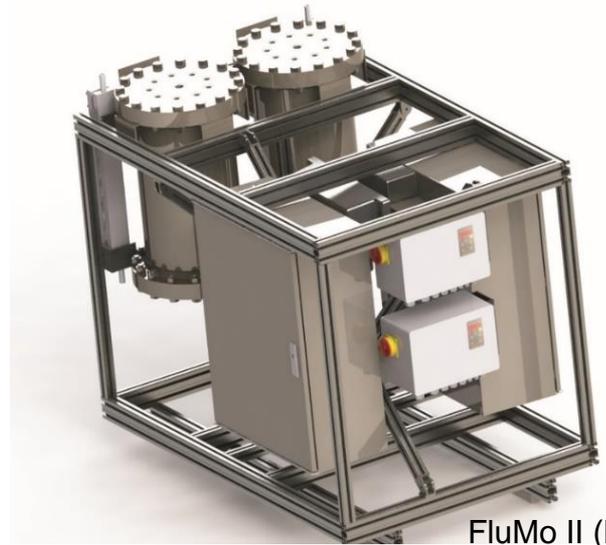
- Labs with high pressure, high temperature devices e.g. FTIR with pT-cell, autoclaves with measurement probes (conductivity, pH, Eh, ultra sonic)
- Fluid monitoring (FluMo 1 and 2)



Autoclave (lab)



FluMo I (field)



FluMo II (lab)



★ Cooperations/Network
 ★ Projects/Partners
 ★ in preparation

Research platforms

ATES
 Research well
 Campus TU
 Berlin

Deep
 geothermal:
 Groß
 Schönebeck



Groß Schönebeck geothermal site



Fluid composition: 265 g/L TDS

