



# Seminários CGE/UE

## **Thermal waters of the Bohemian Cretaceous Basin – investigation, history of exploitation and its limits, protection of the aquifer**

**Prof Josef Datel**

**Universidade Karlova, Praga, República Checa**

**Hora:** 9H 30m  
**Data:** 3 de Maio de 2006  
**Local:** Sala CLV-125, - Colégio Luís António Verney  
**Promove:** Centro de Geofísica de Évora

### **Resumo**

The Benesov-Usti aquifer system contains, especially in basal (A, AB) and middle (C, BC) aquifers, the biggest amount of thermal waters in Czechia, with temperatures often over 30 °C, with the maximum near 40 °C. Their exploitation is concentrated in the area of Usti nad Labem and Decin (its original drainage area). It is necessary to have hydrological and thermic balance for future long term exploitation and optimal protection of the whole widespread structure of thermal water. The solution is drawn up through conceptual and numerical models of groundwater and heat flow in the frame of the entire hydrogeological structure area.

## **Problems of Uranium Mining and Decommissioning in the Area of Straz pod Ralskem**

**Prof Josef Datel**

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**Hora:** 14H 30m  
**Data:** 3 de Maio de 2006  
**Local:** Anf. 2, Colégio Luís António Verney  
**Promove:** Centro de Geofísica de Évora

## Resumo

- ❑ History of mining, decommissioning and its concept, geological and hydrogeological characteristic (risk of geological structure and man-made influences, risk of hydrogeological situation)
- ❑ Mining methods (mining method for deep mine, mining method for in situ leaching mine, relationship between both mining methods)
- ❑ Remediation and its management (groundwater monitoring, modelling and verifying works, contemporary results)

## **Bzenec site - chlorinated hydrocarbons in Quaternary aquifer of Morava River**

**Prof Josef Datel**

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**Hora:** 16H 00m  
**Data:** 3 de Maio de 2006  
**Local:** Anf. 2, Colégio Luís António Verney  
**Promove:** Centro de Geofísica de Évora

## Resumo

- ❑ General properties of chlorinated hydrocarbons
- ❑ Bzenec site (location, history of remedial works, geological conditions, hydrogeological conditions, site monitoring, contemporary remediation (pump and treat), results of remediation, water-supply works protection, numerical modelling of contaminant plume development)