

講演会のお知らせ

Dr. Jiří Rais, PhD

*Nuclear Research Institute, Řež pic  
(Czech Republic)*

“Solvent extraction of electrolytes,  
theory and practice”

日時： 平成 15 年 11 月 28 日(金) 14:00 - 15:30

場所： 東京大学大学院理学系研究科  
化学教室本館3階講義室(1304号室)

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## Dr. Jiří Rais, PhD

Studied at Prague Charles University and postgraduate study of advanced analytical chemistry in France. Defended his PhD thesis on the extraction of ion pairs in 1970. From the year *1962 till now employed at Nuclear Research Institute, Rez near Prague*. Principal scientific worker and group leader of Extraction Methods.

Main *interests in extraction chemistry and physical chemistry of transfer of electrolytes between two solvents*. In this area he published individual extraction constants of transfer of ions between water and nitrobenzene in 1971. This study was a spur to the development of new area of electrochemical studies at ITIES – interface of two immiscible electrolytes.

Practical application of extraction of electrolytes was *extraction of radioactive Cs and Sr from nuclear waste by chloro-protected cobalt bis(dicarbollide)*, this is the only one case of plant operation retreatment plant in world aimed at fractionation of nuclear waste.

Author and co-author more than 130 original scientific articles in international journals and international conferences, 23 patent applications.

Participated at several stays as a research fellow and consultant, at *Japanese JAERI*, Tokai-mura (1992-1993), at Los Alamos Laboratory (1995), and at *Japanese NIMCH*, Tsukuba in 1999 and 2002.

Participates now at the *project ARTIST* under Japanese MEXT in the field of extraction of radioactive cesium by crowns and calixcrowns.