



Schweizerische Gesellschaft der Kernfachleute  
Société Suisse des Ingénieurs Nucléaires  
Swiss Nuclear Society

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## SNS Seminar Radionuclides in Life Sciences

Friday March 11th, 2005, 10:15 – 16:30  
CO 3, EPF Lausanne

The Swiss Nuclear Society (SGK/SOSIN/SNS) would like to invite for a one-day seminar, which is held on Friday March 11<sup>th</sup>, 2005 in Lausanne. This time, emphasis is laid on the use of radioisotopes in life sciences. 6 presentations address the issue of advantages and benefits of radionuclides in nuclear medicine and related research. The seminar will be split in two sessions. The morning session will focus on isotope production for medical applications and for radio(immuno)therapy. Specific attention will be given to the use of beta tracers versus alpha emitters and their implementation for particular cancer-therapies.

The afternoon session will cover the use of positron emitters and their application in Positron Emission Tomography (PET). The principles of PET and its potential for high-resolution imaging will be introduced and its high potential for various applications will be shown. An outlook on biomedical imaging in a multidisciplinary world tops the session. Additionally some posters will be presented, which reflect current field of research of EPFL, ITU, University of Geneva and PSI. Special thanks to Prof. Gruetter, inter alia Head of the laboratory of functional and metabolic imaging (LIFMET) for supporting this seminar at EPFL.

10.15	Introduction	Committee SNS
10.30	Production of carrier-free radionuclides at ISOLDE-CERN	CERN/ISOLDE / Dr U. Köster
11.10	Poster presentation and coffee break	
11.30	Beta emitting nuclides for diagnosis and therapy	PSI / Dr I. Novak-Hofer
12.10	Radioimmunotherapy using alpha-emitting nuclides	ITU / Dr A. Morgenstern
12.50	Poster presentation and Lunch	
14.00	New horizons in Positron Emission Tomography: instrumentation and quantitative imaging	UniGeneva / PD Dr H. Zaidi
14.40	Positron Emission Tomography imaging in small laboratory animals	ETHZ / PD Dr S. Ametamey
15.20	Biomedical imaging in a multidisciplinary world	EPFL / Prof. R. Gruetter
16.00	Poster presentation and Apéro	

The seminar is open, and guests are highly welcome. For organizational reasons we kindly ask for registration at the SNS secretariat.

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