

Tracer 3 Conference schedule

21 June (Monday)

14⁰⁰ Registration of participants in Ciechocinek

15⁰⁰ Bus Warsaw – Ciechocinek

22 June (Tuesday)

9⁰⁰ Opening of Conference

9³⁰ – 11⁰⁰ Session 1 (Chairman – J. Baldyga)

9³⁰ – 10⁰⁰ *Plenary lecture*

Industrial application of radiotracers and sealed source technology promoted by IAEA

J. H. Jin, J. Thereska

10⁰⁰ – 10²⁰ Investigation of Flow Behavior of Coal Particles in an Advanced Pressurized Fluidized Bed Gasifier (APFBG) Using Radiotracer Technique

H.J.Pant, V.K.Sharma, M.Vidhya Kamadu, S.G.Prakash, S.Krishanamurthy, N.V.S.Ramani, Gursharan Singh, R.R.Sonde

10²⁰ – 10⁴⁰ Tracer measurements of Residence Time Distribution for the visualization and optimisation of the liquid flow inside a photo-reactor

Moreira, R.M., Ferreira Pinto, A. M., Batista, B. G., Alves, C.V.P.

10⁴⁰ – 11⁰⁰ Overview of radiotracer experiments for the better understanding of wastewater and water treatment plants in Lima (Peru)

Carlos Sebastian Calvo, Gerardo Maghella, Enoc Mamani, Patrick Brisset, Philippe Berne, Jean-Pierre Leclerc

11⁰⁰ – 11³⁰ Coffee break

11³⁰ – 12⁵⁰ Session 2 (Chairman – T. Bjornstad)

11³⁰ – 11⁵⁰ Radiotracer study in a bubble column reactor (visbreaker)

H.J.Pant, V.K.Sharma, Rohit Kulkarni, M.M.Kumar, Gursharan Singh, A.B.Pandit and Ph. Berne

11⁵⁰ – 12¹⁰ Radioactive Tracer Studies in bubble column for Dimethyl Ether (DME) Synthesis
P. Chen, P. Gupta, M. P. Duduković and B. A. Toseland

12¹⁰ – 12³⁰ Online measurements of liquid carry-over from scrubbers by the use of radioactive tracers

Are Haugan, Sindre Hassfjell, Anne Finborud

10¹⁰ – 10³⁰ Tracer investigation of groundwater direction and flow velocity in the field of drainage system interaction

W. Sołtyk, A. Dobrowolski, R. Zimmicki, A. Owczarczyk

10³⁰ – 11⁰⁰ Coffee break

11⁰⁰ – 12²⁰ Session 8 (Chairman – P. Berne)

11⁰⁰ – 11²⁰ Computational Fluid Dynamics (CFD) simulation for solid flow and classification in a hydrocyclone

Edward Nowak, Zdzisław Stęgowski

11²⁰ – 11⁴⁰ Airflow characterization of an experimental chamber for investigations on indoor air purification

G. Bulteau, A. Lakel, A. Subrenat and P. Le Cloirec

11⁴⁰ – 12⁰⁰ Application of Artificial Neural Networks for modeling of water transport in the Danube catchment.

M. Zimnoch, K. Rozanski, W. Chmura, M. Mikołajczak, D. Rank

12⁰⁰ – 12²⁰ Molecular Imprinting, a valuable tool for Tracer Analysis

Claus Galdiga, Tor Bjørnstad

13⁰⁰ – 15⁰⁰ Lunch

15⁰⁰ – 16²⁰ Session 9 (Chairman – J. H. Jin)

15⁰⁰ – 15²⁰ Industrial Radionuclide Generators, - Status and Perspectives

Tor Bjørnstad

15²⁰ – 15⁴⁰ New Technologies for Production of Radiopharmaceuticals and Medical Materials

E. Iller, Z. Bazaniak, R. Mikołajczak

15⁴⁰ – 16⁰⁰ Compartmental analysis of the results of (radio)tracer experiments in non-living systems in steady state

Z. I. Kolar

16⁰⁰ – 16²⁰ Measurement of diffusion coefficients in porous grains by column experiments: influence of the size distribution

Ph. Berne, R. Gouaty, I. Landry

25 June (Friday)

9⁰⁰ Bus Ciechocinek – Warsaw (about 3 – 4 hours way)

11²⁰ – 11⁴⁰ Multitracer method of diffusion measurement in chromium-manganese steels
Joanna Dudala, Zdzisław Stęgowski, Jolanta Gilewicz-Wolter

11⁴⁰ – 12⁰⁰ Reactive mixing in stirred tanks
Jerzy Bałdyga, Łukasz Makowski

12⁰⁰ – 12²⁰ Numerical simulation of homogenization time measurement by probes with
different volume size
J. Thýn, M. Nový, M. Moštěk, R. Žitný and M. Jahoda

13⁰⁰ – 15⁰⁰ Lunch

15⁰⁰ – 16³⁰ Session 6 (Chairman J. P. Leclerc)

15⁰⁰ – 15³⁰ *Plenary lecture*
Tracer dispersion – experiment and CFD
R. Žitný

15³⁰ – 15⁵⁰ Radiotracer Study on the Efficiency of a Cylindrical 2-Stage Anaerobic Sludge
Digester
Sung-Hee Jung, Jong-Bum Kim, Joon-Ha Jin

15⁵⁰ – 16¹⁰ RTD measurements in an aerated sludge channel reactor: influence of the
geometrical and operating parameters
O. Potier, J.-P. Leclerc, M.-N. Pons

16¹⁰ – 16³⁰ *In situ* measurement of diffusivity
Ph. Berne, J. Pocachard

16³⁰ – 18⁰⁰ *Poster session*

Round table discussion Tracer 4 Conference (Grenoble – France 2006)

19⁰⁰ – 22⁰⁰ Banquet

24 June (Thursday)

9⁰⁰ – 10³⁰ Session 7 (Chairman Z. Stęgowski)

9⁰⁰ – 9³⁰ *Plenary lecture*
The role of radiotracers in petroleum exploration and production
T. Bjornstad

9³⁰ – 9⁵⁰ Use of tracer tests to evaluate hydraulic properties of constructed wetlands
Przemysław Wachniew, Piotr Czupryński, Piotr Małoszewski

9⁵⁰ – 10¹⁰ Development of multitracer methodology for the characterization of petroleum
reservoirs
Ferreira Pinto, A. M., Pereira, E.H.T., Moreira, R.M., Floresta, D. L.

12³⁰ – 12⁵⁰ Tracer investigation and modelling of processes under variable flow
Leszek Furman, Jean Pierre Leclerc, Zdzislaw Stegowski

13⁰⁰ – 14³⁰ Lunch

14³⁰ – 16⁰⁰ Session 3 (Chairman – J. Thyn)

14³⁰ – 15⁰⁰ *Plenary lecture*

Application of test reactions to study mixing on the molecular scale
J. Baldyga

15⁰⁰ – 15²⁰ Analysis of the electrostatic precipitation of particles and drops in a smoking process of seafood products

J. Bellier, C. Sollic, R. Baron, M. Pavageau

15²⁰ – 15⁴⁰ Characterization of the light availability in a photobioreactor by coupling microalgae trajectories prediction with a light attenuation model.

L. Pottier, J. Pruvost, J. Legrand

15⁴⁰ – 16⁰⁰ Mixing and RTD in tanks: radiotracer experiments and CFD simulations

Amit Thatte, A.W. Patwardhan, H.J. Pant and V.K. Sharma and Philippe Berne

16³⁰ – Horsetramway excursion around the Ciechocinek

23 June (Wednesday)

9⁰⁰ – 10³⁰ – Session 4 (Chairman R. Zitny)

9⁰⁰ – 9³⁰ *Plenary lecture*

Advances in flow mapping of multiphase system by radioactive techniques
M. Duduković

9³⁰ – 9⁵⁰ Visualization of flow in a liquid layer with the active interface

T.R. Sosnowski

9⁵⁰ – 10¹⁰ Investigation of the transport behaviour of selected organic compounds at the electrochemical remediation of contaminated soils

T. Jentsch

10¹⁰ – 10³⁰ Application of QMOM to simulate transient tracer and crystal size distributions

Wojciech Orciuch, Jerzy Baldyga

10³⁰ – 11⁰⁰ Coffee break

11⁰⁰ – 12²⁰ Session 5 (Chairman – M. Dudukovic)

11⁰⁰ – 11²⁰ PIV, Radiotracers and CFD for flow anomalies

P. Houdek, Reitspiesová I., R. Žitný and J. Thyn

Posters

1. Leakproof control of technological installations and underground pipelines using radioactive tracers as a contribution to the protection of the natural environment
J. Kraś, L. Waliś, S. Myczkowski, E. Pańczyk
2. Nonstationary two phase flow evaluation by radioisotopes
L. Petryka, M. Zych, R. Kębłowski, R. Murzyn
3. Applications of tracers and CFD methods for investigations of wastewater treatment installation
J. Palige, A. Owczarczyk, A. Dobrowolski, A.G. Chmielewski, S. Ptaszek
4. Influence of fluid structure upon the shape of RTD curve at a Sugar Crystallizer.
J. Griffith, J.I. Borroto, J.P. Leclerc
5. Portable instrument for acquisition and processing data from radiometric experiments performed in the field and industrial conditions.
B. Machaj, J. Mirowicz, A. Owczarczyk, J. Pieńkos, E. Świstowski, P. Urbański
6. Isotope ratio as a tracer for antropogenic sulphur sources
A.G Chmielewski, M. Derda
7. Stable isotopes as a tracer in environmental and food authenticity investigation – JRMS studies
R. Wierzchnicki, A. Owczarczyk, W. Sołtyk
8. The introduction of the Euro: did the tracer community miss something?
Ph. Berne
9. Dynamical features extracted from the solids circulation trajectories in gas-liquid-solid fluidized bed
Miryan Cassanello Faiçal Larachi Jamal Chaouki
10. Neutrons and art
L. Waliś, E. Pańczyk
11. INIS (International Nuclear Information System by International Atomic Energy Agency) – how to use it in Poland?
Tadeusz Urbański
12. Study of wear in piston ring of a vehicle engine using thin layer activation technique.
Iqbal H. Khan, Jin Joon Ha, Gavin Wallace, Muhammad Farooq, Ghiyas-ud-Din, Samar Gul, Riffat Mahmood Qureshi