

Szczecin August 5, 2011

dr hab. inż. Beata Michalkiewicz, Prof. WPUT

ul. Klonowica 11b/24
71-244 Szczecin
Poland
tel. (4891) 4494096
beata.michalkiewicz@zut.edu.pl

Professor at West Pomeranian University of Technology Szczecin with a wide range of experience in the investigation of catalytic selective methane oxidation, catalytic methane decomposition to carbon nanostructures, photocatalytic carbon dioxide reduction.

Self-motivated, strongly analytical, resourceful, dedicated, innovative and creative thinker who enjoys new challenges. Able to work on own initiative and as part of a team. Proven leadership skills involving managing, developing and motivating teams to achieve their objectives.

KEY SKILLS

Inorganic and organic chemistry

Heterogeneous and homogenous catalysis

Very good experience in GC

Research abilities

Experience in new processes in laboratory scale design

Supervisory experience

Good motivator and communicator

Widely computer literate

Languages: English– upper intermediate, Russian – upper intermediate,

German – elementary, Polish – excellent

WORK EXPERIENCE

2008 - present Professor, Department of Chemical Engineering West Pomeranian University of Technology Szczecin

- carbon nanotubes, nanocapsules, nanofibers produced by catalytic methane decomposition over heterogeneous catalyst (Ni/ZSM-5, Ni/SiO₂, Ni/Al₂O₃, Ni/MgO)

- photocatalytic carbon dioxide reduction
 - methane storage in carbonaceous materials
 - Coordinator of Grant of State Committee for Scientific Research of Poland:
 - o Low temperature activation of methane, 2007 – 2010
 - o Effective method of carbon nanotubes, nanofibers, nanocapsules from methane 2011 - 2014
- 1998 – 2008 Assistant Professor, Department of Chemical Engineering, Szczecin University of Technology
- methane to oxygenates conversion over heterogeneous catalyst (Fe-ZSM-5)
 - methane to methanol conversion via esterification in strong acids – homogeneous catalysts: Pd, Pt, Zn, Ni
 - Coordinator of Grant of State Committee for Scientific Research of Poland:
 - o Catalysts for selective methane oxidation 2003 – 2006
 - o Partial oxidation of methane to methanol and (or) formaldehyde over bifunctional heterorganic catalysts, 2004-2007
- 1991 – 1998 Research Scientist, Department of Chemical Engineering, Szczecin University of Technology
1. methane to oxygenates conversion in gas phase under pressure
 2. methane to oxygenates conversion over heterogeneous catalysts (transition metal oxides /SiO₂)

AWARDS

1. First stage Individual Award of Rector of Technical University of Szczecin for scientific achievements in 2003 year
2. Second stage Individual Award of Rector of Technical University of Szczecin for scientific achievements in 2004 year
3. Second stage Individual Award of Rector of Technical University of Szczecin for scientific achievements in 2005 year
4. First stage Individual Award of Rector of Technical University of Szczecin for scientific achievements in 2006 year

5. Second stage Individual Award of Rector of Technical University of Szczecin for scientific achievements in 2007 year
6. First stage Individual Award of Rector of The West Pomeranian University of Technology in Szczecin for scientific achievements in 2009 year
7. First stage Individual Award of Rector of The West Pomeranian University of Technology in Szczecin for scientific achievements in 2010 year
8. Bronze Cross of Merit - 2006
9. Medal awarded by Scientific Company of Szczecin for achievements in heterogeneous catalysis – 1998
10. Invited lecture at IUPAC 5th International Symposium on Novel Materials and their Synthesis (NMS-V) & 19th International Symposium on Fine Chemistry and Functional Polymers (FCFP-XIX), Szanghaj 18-22 october, 2009

habilitation: 2008, Department of Chemical Engineering, Technical University of Szczecin,

Thesis: Study of catalytic conversion of methane to methyl bisulfate in oleum

Ph.D., 1997, Department of Chemical Engineering, Szczecin University of Technology

Thesis: Methane oxidation to oxygenates (Supervisor. Professor K. Kałucki).

M.Sc., Department of Chemical Engineering, 1991, Szczecin University of Technology

Thesis: Investigation of volatile substances from polyesters (Supervisor. Professor J. Trzeszczyński)

PERSONAL DETAILS

Date of birth 14 March 1967

Marital Status single