

Supply Chain Optimization in Petroleum Industry



UNIVERSITY OF PANNONIA

Faculty of Information Technology

Supply Chain Optimization in Petroleum Industry

Alumni Conference 2015

UNIVERSITY OF PANNONIA

MOL GROUP

Outline

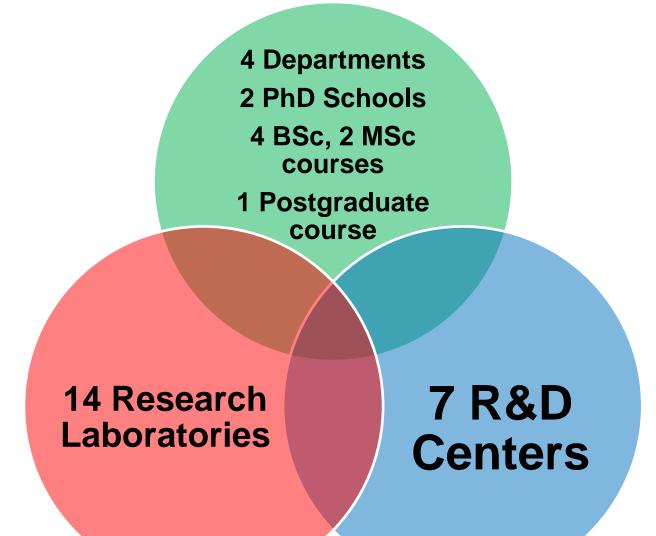
- Faculty of Information Technology and SCM
- MOL FIT-UP Cooperation
- Supply Chain Optimization in Petroleum Industry Graduate Program





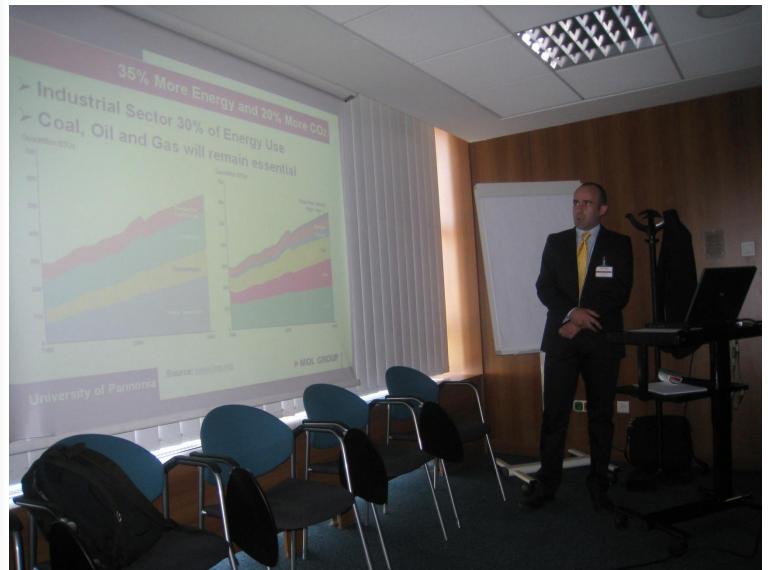


3D of FIT: Education – Research– R&D





MOL GROUP







Hungary's Top Faculty in 3D

Education:

- (Hungary's) **#1**: Highest ranking required to enter IT engineer BSc program (Minimum of 371/500 points in 2014)
- (Hungary's) **#1**: Highest average starting salary among graduates in IT

Research:

R&D:

- (Hungary's) **#1**: Most SCI publications/staff members (in engineering) (More than 2 SCI paper/member in 2013)
- (Hungary's) **#1**: Highest portion of income from R&D (82% in 2013)











FIT – Main Technical Research Fields

- Medical Informatics
- Sensor networks
- Information security
- Supply chain management and optimization
- Intelligent infrastructures







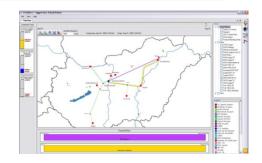




Supply Chain Management and Optimization

- Area of research
 - Management and design of industrial manufacturing systems
 - Design of sustainable energy supply systems
 - Tool and staff management of logistics systems, integration of geographic information systems
 - Partners
 - MOL Nyrt., US-EPA, Kansas State University, TU-Graz













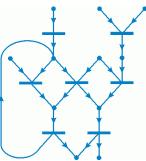


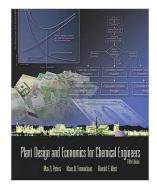
SCM (Continued from the previous page)

- Results
 - P-graph methodology for synthesis of special methods and optimization
 - A separate chapter in textbooks in the USA
 - Each steps has been proven
 - Graphical modelling from engineering point of view
 - Hundreds of publications
 - Tasks in the future
 - Multipurpose optimization (environmental, social purposes)
 - Decision support systems based on developed info-communication technologies

UNIVERSITY OF PANNONIA









MOL GROUP





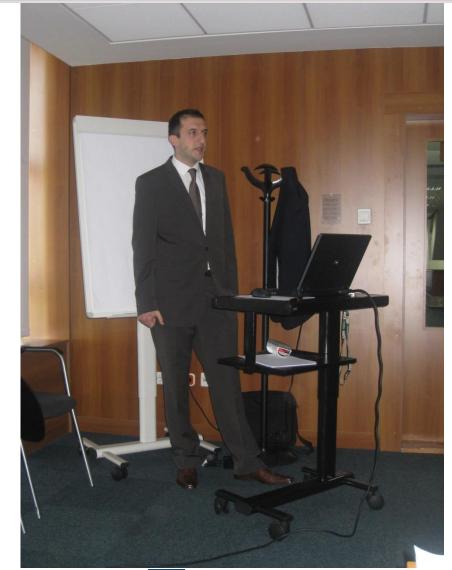
MOL – FIT-UP Cooperation

- Research
- Education
- R&D













MOL & FIT-UP: Research (2006-)

Veszprém Optimization Conference: Advanced Algorithms



CALL FOR PARTICIPATION

The Veszprém Optimization Conference: Advanced Algorithms (VOCAL 2006) December 13-15, Veszprém, Hungary Faculty of Information Technology, Pannon University (previously University of Veszprém)

The Veszprém Optimization Conference: Advanced Algorithms will be held at the Regional Centre of the Hungarian Academy of Sciences in Veszprém (VEAB), Hungary, December 13-15, 2006. The conference will be hosted by the Faculty of Information Technology, Pannon University.



SCOPE

The VOCAL conference focuses on recent advances on optimization algorithms: continuous and discrete; complexity and convergence properties, high performance optimization software and novel applications are reviewed as well. We aim to bring together researchers from both the theoretical and applied communities in the framework of a medium-scale event.

CONFIRMED INVITED SPEAKERS INCLUDE

Lorenz T. Biegler, Carnegie Mellon University, U. S. A. Hans Georg Bock, University of Heidelberg, Germany J. Frederic Bonnans, INRIA, France Dorit S. Hochbaum, University of California, U. S. A. Etienne de Klerk, Tilburg University, The Netherlands Yurii Nesterov, Catholic University of Louvain la Neuve (UCL), Belgium András Prékopa, Rutgers, The State University of New Jersey, U. S. A. Annick Sartenaer, Notre-Dame de la Paix University (FUNDP), Belgium

CONTRIBUTED TALKS

Each accepted paper will be allotted a 25 minute talk. Authors wishing to speak should submit an abstract via the conference WEB page by July 15, 2006.

PUBLICATION IN SPECIAL ISSUES OF OPTE & OMS

A special issue of the journals "Optimization and Engineering (OPTE)" and "Optimization Methods and Software (OMS)" will be published from the papers presented at VOCAL 2006. Papers discussing novel solutions of novel approaches to engineering optimization problems will be considered for publication in OPTE, while papers with algorithmic and software focus in OMS. All papers will be refereed according to the standards of the respective journals.

UNIVERSITY OF PANNONIA



Sponsors



Faculty of Information Technology, University of Pannonia, Veszprém, Hungary



Regional Centre of the Hungarian Academy of Sciences, Veszprém



MOL Nyrt.

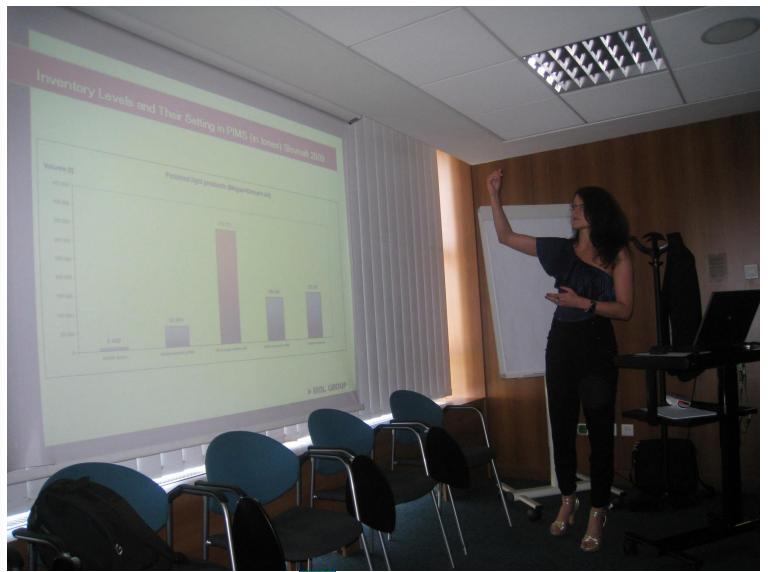


Hungarian Operational Research Society



Museum of Hungarian Construction Industry









MOL & FIT-UP: Education (2007-)

SUPPLY CHAIN OPTIMIZATION IN PETROLEUM INDUSTRY

CONTRACTOR OF A CONTRACT OF A

and in and linking a man link of the strategy and the strategy of the strategy

AND DE DE L'ANDER

the religious have been a second

Type of course: full-time postgraduate course Place of education: Hungary

Language of education: English Qualification: Specialist of supply chain optimization in petroleum industry Length of education: 2 semesters Expected date of launch: 9 September 2013

Goal of the course:

> Educate specialists for modelling and optimizing the entire value chain in oil industry.

Required knowledge and skills:

Corresponding BSc, MSc or equivalent degree in chemistry, chemical engineering, information technology, applied mathematics, economics or business

- Ability to abstract, outstanding numerical skills
- Advanced English

Application deadline: 15 May 2013

Register and apply at: www.mol.hu/en/about_mol/careers For more details please visit: www.mik.uni-pannon.hu/SCOPI or contact us at: pimsacademy@mol.hu







The program provides:

Individual career plan

Practice oriented training

> Scholarship

Marketable professional educations

Job opportunities at MOL Group









SCOPI students 2007-2008

- Balaskó Balázs
- Bebesi Gergely
- Borbás Péter István
- Forster Mihály László
- Kenesei Tamás Péter
- Kókai Emese
- Németi Krisztina
- Roschig Marian
- Timkó Valentin
- Váczity Andrea Ágota











SCOPI students 2009-2010

- Caceffo Pierpaolo
- Gábor Máté
- Gajić Dragoljub
- Jeličić Matea
- Marić Zoran
- Patljak Željko
- Ravazzolo Carlo Alberto
- Šokčević Mario
- Špaňová Zuzana
- Varga Tamás Zoltán











SCOPI students 2011-2012

- Al-Thuhli Athari Salim Hamed
- Basic Igor
- Cmrk Danijel
- Dvoran Richard
- Himics Miklós
- Kalina Ágnes
- Osman Elhassan Abdalla Mohamed
- Takács Ágoston
- Tehenics Zsófia











SCOPI students 2013-2014

- Ádám Holczer
- Jakov Mihaljevic
- Grzegorz Szymerkowski
- Gábor Kovács
- Laura Csizmadia
- András Ludányi
- Al-Hamadani Naema Mohammed





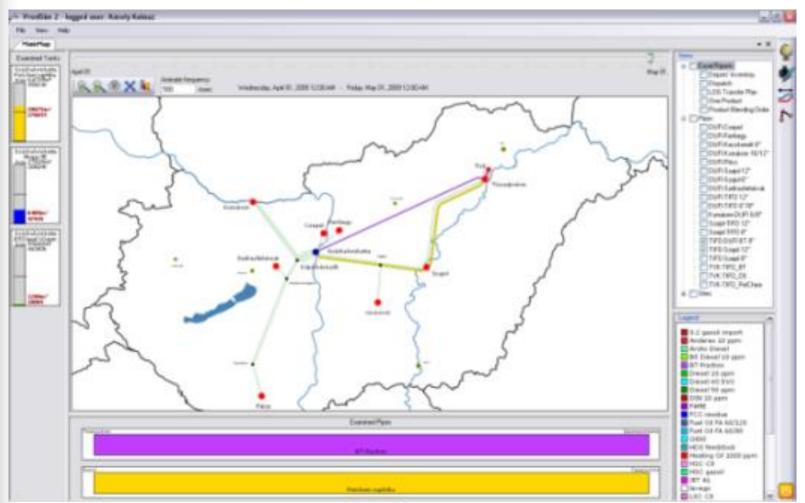






MOL & FIT-UP: R&D (2007-)

ProdSim & DDM



MOL GROUP



MOL – FIT-UP Cooperation

- Research
- Education
- R&D





