



1st ATW-MK 2018

Conference Note

With the completion of six new WWTPs (2015-2018), the total treatment capacity will reach approximately 573 000 P.E. or around 27 % of the required capacity in our country. Within Sector Operational Programme for Environment and Climate (2014-2020), are proposed to be constructed at least two other WWTPs which means the treatment capacity in the country would raise for 210.000 P.E. bringing the total capacity to approximately 784.000 P.E. or around 37.3% of the total required capacity.

The Challenge is then to secure operational stability of the WWTPs not only from technical but also from financial point of view.

Going towards this goal by active exchange between all the shareholders such as public utilities, governmental institutions and universities is the aim of the Conference.

Registration

No registration fee is required for attendance of the Conference.

The attendance of the Conference will be granted due to Invitation.

Please take into consideration that the Conference is focused on public utilities and decision makers in the sector of WWTP Projects.

Conference Programme

Please be informed that the presented Programme is draft at the moment. Simultaneous Translation of German-Macedonian-Albanian will be granted. For an actual Programme Please visit: www.atw.org.mk

Get-Together Dinner

On the 12th of April a get-together Dinner will be organized for the guests on the premises of the Aleksandar Palace Hotel Restaurant

Hotel Reservation

The Organizer can assist in reservation of Hotel rooms for the registered guests on the Conference

Food & Beverage

Food and Beverage will be organized during the Conference for the registered guests.

Supported by:



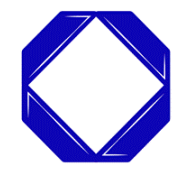
Location of the Event

The Event will be held in the Conference Hall of Aleksandar Palace Hotel Bul. 8-mi Septemvri br.15 1000 Skopje

Contact

For information and registration: Ms. Ana Grupcheva ana.grupcheva@atw.org.mk

Organized by:



Здружение за Третман на Вода и Отпадна Вода
Association for Treatment of Water and Wastewater



Topic of the Conference:

Sustainability of Wastewater Treatment Plants in R. Macedonia

Know-how transfer between Public Utilities, Government Institutions, Experts & Financing Agencies

- ◆ Honored Speeches from Germany
- ◆ Planning and Construction of WWTPs
- ◆ Operation of WWTPs
- ◆ Maintenance of WWTPs
- ◆ Financing of WWTPs

12. and 13. April 2018
Conference Hall
Aleksandar Palace Hotel
City of Skopje

In coordination with:

- Ministry of Environment and Physical Planning
- Delegation of European Union
- Civil Engineering Faculty Skopje
- Chamber of Certified Architects and Certified Engineers
- ADKOM Association of Providers of Public Services





Thursday 12.04.2018

Opening of the Conference

- ◆ 8:30 Registration
- ◆ 10:00 Welcome & Opening
Univ. Prof. Dr. –Ing. Petko Pelivanoski
President of Association for Treatment of Water ATW-MK

Mr. Sadulla Duraku

Minister of Environment and Physical Planning

Mr. Nicola Bertolini

Head of Cooperation at Delegation of European Union

Ms. Katrin Frühinsfeld

Head of Education at German Embassy in Skopje

Univ. Prof. Dr. –Ing. Darko Moslavac

Dean of the Faculty of Civil Engineering Skopje

Mr. Zoran Georgiev

President of Association for Public Utilities ADKOM

Honored Speeches

Development of Wastewater in Europe

Chaired by: Petko Pelivanoski

- ◆ 10:30 New German Concepts and technologies for the wastewater sector
 - New semi-central sanitary concepts
 - Decentralized treatment of storm runoff
 - Filterable road construction for polluted rainwater
- Univ. Prof. Dr. –Ing. Max Dohmann**
Research Institute for Water and Waste Management at the RWTH Aachen, Germany

- ◆ 11:00 Challenges in Wastewater Treatment with regard to nutrient removal in Europe
 - Nitrogen Removal
 - Microbiology
 - Future Perspectives
- Univ. Prof. Dr. Martin Denecke**
University of Duisburg-Essen, Department for Urban Water at the Civil Engineering Faculty Essen Germany

- ◆ 11:30 Advanced waste water treatment with regard to organic micro pollutant removal
 - Activated Carbon
 - Oxidation
 - (Combined) Membrane Processes
- Univ. Prof. Dr. –Ing. Stefan Panglich**
University of Duisburg Essen, Department of Process Engineering / Water Technology Essen Germany

- ◆ 12:00 Challenges in Operation of Wastewater Treatment Plants with regard to:
 - Energy Costs
 - Sludge
 - Optimization of Operation
- Dr. Torsten Frehmann**
Emschergenossenschaft - First founded Water Management Association in Essen Germany

- ◆ 12:30 Lunch

Planning Construction of WWTPs

Chaired by: Milorad Jovanovski & Martin Denecke

- ◆ 13:30 Coordination during Construction of WWTP Radovish and WWTP Strumica with Lessons Learned
 - Coordination between Ministry and Municipality
 - Transport and Collection of Wastewater
 - Future Projects with IPA Fund
- Ms. Jadranka Ivanova**
IPA Coordinator from the Ministry MOEPP

- ◆ 13:50 Development of a Wastewater Treatment Project from Concept until Implementation in Kichevo
 - Concept for Region
 - Transport and Collection of Wastewater
 - Design of WWTP Kichevo
- Univ. Prof. Dr.-Ing Goce Taseski**
Institute for Water and Wastewater at the Faculty for Civil Engineering Skopje

- ◆ 14:10 Development of a Concept for difficult foundation of SBR Tanks in WWTP Kocani
 - Soil Conditions
 - Development of Design
 - Implementation of Foundation
- Univ. Prof. Dr.-Ing Spase Gjorgjevski**
Institute for Foundation at the Faculty for Civil Engineering for Civil Engineering Skopje

- ◆ 14:30 Structural Design according European and Macedonian Standards for Water-resistant Concrete Tanks
 - Approach
 - Comparison Eurocode 7 and MK Standard
 - Results
- Univ. Prof. Dr.-Ing Goran Markovski**
Institute for Structural Design at the Faculty for Civil Engineering for Civil Engineering Skopje

- ◆ 14:50 Coffee Break

- ◆ 15:20 Challenges of Groundwater Management during Construction Time of WWTP Kocani
 - Challenges
 - Approach
 - Results
- Mr. Ljupce Kolev**
Construction Company Zikol

- ◆ 15:40 Challenges of Groundwater Management during Construction Time of Collector Kichevo
 - Challenges
 - Approach
 - Results
- Mr. Slavejko Georgiev**
Construction Company Vardargradba

- ◆ 16:00 Construction of WWTP Prilep with progress of work and risks during construction
 - General Overview
 - Risks and Countermeasures
- Ms. Nikolina Ruvcheska**
Project Implementation Unit of Prilep

- ◆ 16:20 Group Discussion
- ◆ 19:00 Get-together Dinner



Friday 13.04.2018

Operation of WWTPs

Chaired by: Jadranka Ivanova & Torsten Frehmann

- ◆ 9:30 Obligations and Responsibilities of the IPA-Fund Receivers with regard to WWTP Projects
 - Overview of Responsibilities
 - Experience of other EU candidate countries
 - Measures and successful approach
- Mr. Luca Arras**
Delegation of European Union in Skopje

- ◆ 9:50 Defining the costs of Operation of WWTP with possibilities to reduce operational costs
 - Calculation of Operation Costs
 - Optimization of Costs
 - Experience Values
- Mr. Daniel Mertens**
Company for Operation of WWTPs - WTEB

- ◆ 10:10 How an automated process can help to reduce costs for operation of WWTPs
 - SCADA Control
 - Overview of the Process
 - Optimization
- Mr. Rene Matthies**
ZOV – Utility for Operation of WWTP Zagreb
Operation Manager

- ◆ 10:30 Coffee Break

- ◆ 11:00 Operation of WWTP Kotor - Tivat and WWTP Budva as example of functioning WWTP on the Balkan
 - Taking into Operation
 - Challenges during Operation
 - Measures for stable Operation
- Mr. Goran Pejovic**
WWTP Kotor-Tivat Operation Manager

- ◆ 11:20 Optimization of the Aeration of the WWTP for stable operation and savings of costs
 - Aeration as major cost factor
 - Optimization
 - Results
- Mr. Kolja Pirke**
WWTP Dietzenbach - Process Engineer

- ◆ 11:40 Sludge treatment on the Wastewater Treatment Plants as valuable product
 - Sludge Treatment
 - Sludge as valuable resource and product
 - Sludge as Fertilizer
- Mr. Jürgen Heinrichmeier**
OOO EKO Service Sludge Treatment Moscow Russia

- ◆ 12:00 Using the renewable energy source as valuable source at the WWTPs
 - Certification of Energy Management acc. ISO
 - PV Unit and CHP
 - WWTP Märkische Schweiz Germany
- Mr. Volker Hessenbruch**
Certification of Energy Management acc. ISO Standards

- ◆ 12:30 Lunch

Staff & Maintenance of WWTPs

Chaired by: Max Dohmann & Stefan Panglich

- ◆ 13:30 Introduction of AHK and Macedonian-German Relationship with example of German dual educational system
 - Training and Education in Macedonia
 - Maintenance of Machines
 - Networking iMove-Germany
- Mr. Tobias Bolle**
Delegation of German Industry in Macedonia

- ◆ 13:50 Maintenance of Mechanical Equipment on the WWTP – Major Equipment Compressors
 - In operation
 - Maintenance
 - Energy Saving
- Mr. Thorsten Poggenmoeller**
Atlas Copco

- ◆ 14:10 Maintenance of Electro-technical Equipment on the WWTP – Major Equipment
 - Transformer Station
 - Electrical Rooms & SCADA
 - Measurement Equipment
- Mr. Milosh Stankovic**
Elektrovat

- ◆ 14:30 Coffee Break

Financing of WWTPs

Chaired by: Max Dohmann & Stefan Panglich

- ◆ 15:00 Financing support from the Swiss Government with regard to environmental projects
 - Investment in R. Macedonia
 - Sectors
 - WWTP Kocani
- Ms. Stanislava Dodeva**
Swiss Embassy – National Officer

- ◆ 15:20 Experience and overview of WWTP Projects of KfW Development Bank in the region
 - Overview of WWTP in the Region
 - Experience
 - Possibilities for Macedonia
- Mr. Robert Sarlamanov**
KfW Development Bank

- ◆ 15:40 Investment of UNDP for the purposes of wastewater projects
 - Financing Models
 - Perspectives for Western Balkan
 - Procedures
- Mr. Dimitar Sekovski**
UNDP in Skopje – National Officer

- ◆ 16:00 Regulation of Prices in R. Macedonia
 - Models
 - Preliminary Experiences
- Ms. Adrijana Nelkova-Chuchuk**
Regulatory Commission

- ◆ 16:30 Closing Ceremony – Final Discussion and Conclusion of the Conference