



References

Awards & Scientific Publications

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This document covers information about VWMS customers in different application fields and awards won for the technology as well as a list of peer-reviewed scientific publications. The reference list serves as an excerpt and is under continuous updating.



BOTTLED WATER

Customer:	Romaqua – Mineral Water Production Romania, 2 units in 2 different plants
Application:	Online monitoring of microbiological water quality of two mineral water wells and quality control throughout bottling process.
Task:	Safeguarding product quality, enable evidence-based decision-making to CIP (Clean in Place), testing final product prior to delivery, increase safety and efficiency of the bottling process.
Target organism:	Total Microbiological Activity (ALP)
Contact:	Mr Radu Lazaroiu, General Manager Romaqua, radu.borsec@romaqua.ro

ROMAQUA GROUP
BORSEC

Customer:	Refresco
Application:	Monitoring of microbial water quality in the production process and as a lab device to replace parts of manual tests
Task:	Safeguarding process and product quality, testing of final product prior to dispatch.
Target organism:	Total Microbiological Activity and E.coli in some cases.
Contact:	Via our distribution partner Reinhold Keller, Sagamo AG.



Customer:	Major international soft drink company , plant in South Africa
Application:	Pilot and technology validation project for monitoring of microbiological water quality of raw water from municipal sources, quality control throughout the production process.
Task:	Safeguarding product quality and increase safety and efficiency of the soft drink production process. Targeted reduction of chlorine dosage for disinfection.
Target organism:	Total Microbiological Activity (ALP)
Contact:	no disclosure of information possible due to an NDA.

Customer:	Rauch Fruchtsaft AG, Austria
Application:	Using the ColiMinder for continuous monitoring of microbial water quality at different steps in bottling process.
Task:	Safeguarding product quality, increase safety and efficiency of bottling process.
Target organism:	Total Microbiological Activity (ALP)
Contact:	through our partner Sagamo AG Mr. Reinhold Keller, rk@sagamo.ch, mobile: +41 77 983 5164





DRINKING WATER

Customer:	WSD – public Water Supply Department , Hong Kong
Application:	ColiMinder has been successfully validated in a technology evaluation project, and WSD will continue using the ColiMinder for monitoring final drinking water and equip further drinking water plants with the instrument. Next scheduled investment will be a ColiMinder Emergency Response Unit for scanning the drinking water network.
Task:	Ensuring microbial safety in drinking water supply.  Water Supplies Department The Government of the Hong Kong Special Administrative Region
Target organism:	Total Microbiological Activity (ALP)
Contact:	through our partner Guyline Asia Ltd. Ms Wendy Lai, General Manager Wendy@guyline.com.hk or GM@guyline.com.hk

Customer:	DEWA – Dubai Electricity and Water Authority, UAE
Application:	Pilot project for monitoring microbial water quality in a drinking water network
Task:	Ensuring drinking water safety, planned roll-out to more deployments within DEWA
Target organism:	Total Microbiological Activity (ALP)
Contact:	through our partner AIWAEN : Mr Craysac Fx, CEO E-Mail: craysacfx@waen.ai 

Customer:	NEOM –Smart City Project, Saudi Arabia
Application:	Pilot project for monitoring microbial water quality in drinking water production
Task:	Ensuring drinking water safety, planned roll-out to more deployments within NEOM
Target organism:	Total Microbiological Activity (ALP) and E. coli 
Contact:	through our partner AIWAEN : Mr Craysac Fx, CEO E-Mail: craysacfx@waen.ai نيوم NEOM

Customer: KWR Water Research Institute, The Netherlands

Application: Technology evaluation and validation for Dutch drinking water utilities, comparison with other techniques.

Task: Identifying most suitable deployments and use cases of ColiMinder for Dutch Water Utilities.

Target organism: Total Microbiological Activity (ALP)

Contact: Marcelle van der Waals, Scientific researcher - Microbial Water Quality and Health
phone +31 30 606 9566 | E-Mail: Marcelle.van.der.Waals@kwrwater.nl



Customer: Sweden Water Research

Application: Various projects for evaluation of ColiMinder for online monitoring of microbiological water quality, in drinking water and surface & bathing water.

Task: Identifying most suitable deployments and use cases of ColiMinder for Swedish Water Utilities.

Target organism: Total Microbiological Activity (ALP), E. coli and Enterococci

Contact: Markus Fröjd, Head of Projects at Sweden Water Research
Markus.Frojd@swrab.se, mobile : + 46 722 25 96 56



sweden
water
research

Customer: LIST – Luxembourg Institute of Science & Technology

Application: Online monitoring of microbiological water quality in drinking water production and distribution at different Luxembourg drinking water utilities. Next project SMARTWATER including 4 ColiMinder devices in finalizing for 2023/2024.

Task: Ensuring safety of drinking water supply

Target organism: Total Microbiological Activity (ALP)

Contact: Mr Jean-Baptiste Burnet
jeanbaptiste.burnet@list.lu
Mobile: +352 691 682 273



Customer: Unitywater - drinking water utility, Australia

Application: Online monitoring of microbiological water quality of final drinking water in Unitywater's network, installed at BliBli reservoir.

Task: Ensuring safety of drinking water supply.

Target organism: Total Microbiological Activity (ALP)

Contact: through **Optimos Solutions**, distribution partner for Australia & NZL
Mr. Phil Krasnostein, Director
phil@optimosgroup.com.au, Mobile: +61 409359155



Customer: **WLVNB – Wasserleitungsverband Nördliches Burgenland**, one of Austria’s Top Ten Water supplier

Application: During pilot project 500+ samples were measured in parallel with the culture-based method. Correlation was approved. Using an ERU (Emergency Response Unit) to monitor microbial drinking water quality during construction works in drinking water network.

Task: Ensuring safety of drinking water supply. Quick decision-making during construction works increases efficiency significantly.

Target organism: Total Microbiological Activity (ALP)

Contact: via VWMS GmbH



Customer: **Bathurst Regional Council**, municipal drinking water supply, Australia

Application: Online monitoring of raw water quality for drinking water production – installed at pumping station located in a 21 km long pipeline between reservoir and drinking water production facility

Task: Ensuring safety of drinking water supply

Target organism: E. coli

Contact: through **Optimosgroup**, ColiMinder distributor for Australia
Mr. Phil Krasnostein, Director, phil@optimosgroup.com.au, Mobile: +61 409359155



Customer: **MEKOROT**, Israel’s public water supplier

Application: Online monitoring of raw water network for drinking water supply with ColiMinder ERU

Task: Ensuring safety of drinking water supply

Target organism: E. coli and Total Activity (ALP)

Contact: Dalit Vaizel-Ohayon, PhD
Chief Bacteriologist
Mekorot National Water Company
Jordan District, Central Laboratory
P.O.Box 610 Nazareth Illit 17105, Israel
Mobile phone: +972 50 7126839
Email: dvaizel@mekorot.co.il



Customer: **Ville de Laval**, municipal drinking water supply, Canada

Application: The ColiMinder is installed at raw water intake from river “Rivière des Mille îles” to a drinking water plant

Task: Monitoring of microbiological quality of raw water

Target organism: E. coli

Contact: via VWMS





SURFACE & BATHING WATER

Customer: **Sydney Water** – Sydney’s public Water Company

Application: using 2 ColiMinder devices for monitoring urban bathing water site at Paramatta River to safeguard bathing water quality

Task: Enabling quick reaction on contamination events

Target organism: Enterococcus

Contact : **Through VWMS’ distribution partner for Australia**
Optimos Group
Mr. Phil Krasnostein
phil@optimos.com.au



Customer: **Eau de Paris** - public water utility for Paris

Application: using 2 ColiMinder devices for

1. bathing water monitoring in different public recreation areas, especially during **Olympic Games 2024**
2. deployment in raw water monitoring for **drinking water production**
3. monitoring combined sewer overflows in rivers and recreational waters
4. monitoring drinking water production in drinking water production

Task: ensuring safety in bathing waters / enabling quick reaction on contamination events / monitoring drinking water safety

Target organism: E. coli, Enterococcus and Total Activity

Contact : **Dr Sophie Haenn**, Microbiologiste R&D
75214 PARIS Cedex 13 | France | sophie.haenn@eaudeparis.fr



Customer: **Ville de Paris – Government of the City of Paris**

Application: bathing water monitoring of a sites at Seine River, **dedicated for swimming competition at Olympic Games 2024**. Paris’ Olympic Organization Committee together with International triathlon Union have decided to use ColiMinder results for final decision-making whether to use the Seine for official swimming competition.

Task: Ensuring safety in bathing waters, enabling quick reaction on contamination events (closing/opening beaches)

Target organism: E. coli, Enterococcus

Contact : **Marion Delarbre**
Bureau de Miguel GILLON-RITZ, Responsable du pôle d’expertise grand cycle et qualité de l’eau Direction de la Propreté et de l’Eau, 75014 PARIS, France,
marion.delarbre@paris.fr



Ville
de
Paris

Customer: EKEO, Energizing Kowloon East Office, Smart City Project, together with CEDD (Civil Engineering Development Department), Hong Kong

Application: Monitoring E. coli levels at Kwun Tung Typhoon Shelter at the former airport in Hong Kong, an urban development site

Task: Monitoring fecal contamination in surface & recreational water

Target organism: E. coli saline

Contact : Ms Wendy Lai, General Manager,
Guyline Asia Ltd. (Distribution partner for Hong Kong)
Wendy@guyline.com.hk or GM@guyline.com.hk



Customer: Sweden Water Research – Urbana Bad Sweden

Application: The Urbana Bad project is a large scientific project to make bathing safer through application of innovative monitoring techniques. Using 3 unit in summer 2023 for monitoring bathing water quality in Helsingborg and Malmö, Sweden

Task: Monitoring fecal contamination levels in bathing waters, enabling quick reaction on contamination events.

Target organism: E. coli and Enterococci

Contact: Markus Fröjd, Head of Projects at Sweden Water Research
Markus.Frojd@swrab.se, mobile : + 46 722 25 96 56



Customer: Ville de L'Assomption, municipal bathing water and drinking water, Canada

Application: The ColiMinder is installed at raw water intake from a river to a drinking water production, at the same time monitoring a bathing site nearby.

Task: Monitoring of microbiological quality of surface and raw water

Target organism: E. coli

Contact: via VWMS



Customer: University of Tokyo

Application: surface water monitoring in different public recreation areas, also the ones dedicated for swimming competition at upcoming Olympic Games

Task: ensuring bathing water safety, enabling quick reaction on contamination events

Target organism: E. coli

Contact: Prof. Hiroyuki Katayama
University of Tokyo, Department of Urban Engineering,
Graduate School of Engineering
Bunkyo-ku, Tokyo, 113-8656 | Japan



Customer: NIWA - National Institute of Water and Atmospheric Research

Application: Surface water monitoring using ColiMinder ERU in different applications and both fresh and saline waters.

Task: scientific studies, validations, research projects

Target organism: E. coli, Enterococcus in Fresh-/Saline-Waters

Contact: **Dr Rebecca Stott**
Environmental Health | Microbiology Scientist
Hamilton | New Zealand
www.niwa.co.nz
Rebecca.Stott@niwa.co.nz



Customer: **KIT – Karlsruhe Institute of Technology**

Application: Surface water monitoring in different applications using ColiMinder Mobile. Current project: karstic spring monitoring throughout Europe

Task: scientific studies, validations, research projects in real world setting

Target organism: E. coli

Contact: Prof. Nico Goldscheider
Karlsruhe Institute of Technology
Institute of Applied Geosciences
Nico.goldscheider@kit.edu
76131 Karlsruhe | Germany



Customer: **Université Polytechnique de Montréal**

Application: monitoring of surface water and raw water in drinking water production, bathing water and sewage plant discharge using 6 ColiMinder devices

Task: scientific validation of the technology; helping municipalities and other institutions to ensure water safety

Target organism: E. coli

Contact: **Sarah Dorner, PhD**
Canada Research Chair in Source Water Protection
Department of Civil, Geological and Mining Engineering
Polytechnique Montréal
Tel: 514-340-4711 ext. 3711
sarah.dorner@polymtl.ca



Customer: **AgResearch, New Zealand**

Application: monitoring of surface water in agricultural production and land use

Task: Monitoring at different sites / of different streams and effluents in agricultural land use and production

Target organism: E. coli

Contact: **AgResearch**
Mr. Richard Muirhead, richard.muirhead@agresearch.co.nz





WASTEWATER

Customer: MWR Denver – MetroWaterRecovery Denver / Colorado

Application: Pilot project for using the ColiMinder to control disinfection

Task: Monitoring of E. coli levels prior to disinfection for adjusting disinfection intensity to actual microbiological load.

Target organism: E.coli

Contact: MWR Denver
Mr Dan Freedman
Dfreedman@MetroWaterRecovery.com



Customer: LZWW – Life Zero Waste Water – EU funded project with several stakeholders: FCC Aqualia, Canal de Isabel II, Simbiente Ingeniería and scientific partners, deployed at Valdebebas WWTP (Madrid, Spain)

Application: Project “Combined treatment of urban waste water and the organic fraction of municipal solid waste in WWTPs with positive energy balance for populations of less than 50,000 IE.

Target organism: E.coli

Task: Providing reliable sensor data for a development of the smart system for the control and monitoring of water quality in effluent.

Contact: via VWMS GmbH | www.lifezerowastewater.com



Customer: DSD - Drainage Service Department, public wastewater institution Hong Kong, with ARUP International Consultancy

Application: Sewage treatment monitoring and controlled disinfection at Stonecutters Island Sewage Treatment Works (SCISTW), one of the world’s largest wastewater treatment plants.

Target organism: E. coli (saline water)

Task: official statement from DSD dated 2018:

DSD and ARUP present an innovative project at Hong Kong’s Stonecutters Island Treatment Works (SCISTW).

As an attempt to adopt new technology in order to improve efficiency and efficacy of sewage treatment, DSD and ARUP are trialing VWMS’ ColiMinder technology at HK Stonecutters Island.

The treatment works at Stonecutters Island consists of Chemically Enhanced Primary Treatment (CEPT) and disinfection with Sodium Hypochlorite. The SCISTW services a

ARUP



population of more than 5 Million and with a design ADWF of 2,450,000 m³/d is it one of the world's largest CEPT wastewater treatment plants.

Sodium Hypochlorite for disinfection consists as one of the significant operating costs. A number of inherent technical issues, including variable wastewater chlorine demand and fluctuating environmental conditions provide a challenge for the operators to optimize the chemical consumption while meeting disinfection objectives.

The goal of DSD and ARUP is to:

- Improve process efficiency
- Safeguard water quality

The trial has been under way since December 2017 and so far over 5,000 measurements have been recorded without failure or need for re-calibration of the unit. While the trial period is planned for 12 months in order to cover all expected process conditions, initial performance indicates that the equipment is reliable and the relationship between ColiMinder and Laboratory results is positive.

Contact: via VWMS GmbH

Customer: MSD Cincinnati, Ohio, US

Application: Controlled disinfection in sewage treatment discharge, monitoring before and after disinfection

Task: Monitoring sewage treatment process performance

Target organism: E. coli

Contact: via VWMS GmbH



MEMBRANE INTEGRITY

Customer: Herlev Hospital in cooperation with DHI Group, Denmark

Application: DHI acted as engineering company for a hospital sewage plant discharge quality monitoring, using the ColiMinder to monitor membrane integrity in a public hospital's MBR plant. **Project has been awarded by Danish EPA as "BAT" (Best Available Technology).**

Task: Fully automated contamination monitoring of sewage plant discharge before drained into a recreational area. Automatic warnings in case of increased contamination due to broken UF membranes.

Target organism: E. coli

Contact: Ulf Nielsen (formerly DHI)
Ultraaqua, Denmark
uni@ultraaqua.com





PROCESS WATER

Customer: Bipso Bracco, Pharma production, Germany

Application: Monitoring of microbiological quality levels in pharma production, from RO water to ultra-pure water.

Task: Ensuring safety and efficiency of production process.

Target organism: Total Activity (ALP)

Contact: via Sagamo AG, Reinhold Keller | rk@sagamo.ch



Customer: **Producer of metal working fluids, Europe**
(Must not be named due to an existing NDA.)

Application: Monitoring of microbiological contamination in metal working fluids in industrial production process.

Task: Automated quality monitoring to enable adjustment of disinfection intensity.

Target organism: Total Activity (ALP)

Contact: via VWMS

AWARDS won by ColiMinder

2021:

December 2021:

Winner of the TechChallenge by The Water Council, Milwaukee, US

“Microbial Control in Distribution systems and in buildings”



2019:

September 2019:

Winner of the MEKOROT -Bacterial Detection Challenge

GLOBAL CHALLENGE: ISRAEL: BACTERIA DETECTION
CONNECTING INNOVATIVE SOLUTIONS WITH THE MEKOROT NATIONAL WATER UTILITY - ISRAEL

2016:

October 2016 **WaterSmart Innovations Conference**

LAS VEGAS Channels for Innovation Summit:

- **MOST INNOVATIVE NEW TECHNOLOGY**



July 2016 **Singapore Water Week**

TechXchange: WINNER OF INNOVATION AWARD

- **1st Place voted by the Jury**
- **1st Place voted by TechXchange Participants**

Jan 2016 **International Water Summit ABU DHABI**

Innovate@IWS: FIRST PLACE INNOVATOR

- **WINNER OF INDUSTRIAL WATER SECTOR**



2015:

- 3/2015 - Neptun Water- Award
- 3/2015 - Science2business Award 2015

2014 :

- 12/2014 - STEP AWARD – Germany – TOP 20
- 11/2014 - Austrian Young Entrepreneurs Competition – Winner Category Environment
- 11/2014 - Austrian Young Entrepreneurs Competition - 9. Rank
- 10/2014 - NÖ Future Award – 2. Rank
- 10/2014 - Green Business Award 2014 – 1. Rank
- 10/2014 - Cisco + Pioneers – Innovation Challenge – Top 50
- 10/2014 - Innovationspreis 2014 – outstanding Innovation
- 09/2014 - DAPHNE Environment Award – awarded Excellent Project



List of scientific publications

List of peer-reviewed publications

- Goeppert, N., Frank, S., Fahrmeier, N., Goldscheider, N. (2022). High-Resolution multiparameter monitoring of microbial water quality and particles at two alpine karst springs as a basis for an early-warning system. *Hydrogeology Journal* 2022. <https://doi.org/10.1007/s10040-022-02556-8>
- Favere, J., Waegenaar, F., Boon, N., & De Gussem, B. (2021). Online microbial monitoring of drinking water: How do different techniques respond to contaminations in practice? *Water Research*, 117387. <https://doi.org/10.1016/j.watres.2021.117387>.
- Burnet, J.-B.; Habash, M.; Hachad, M.; Khanafer, Z.; Prévost, M.; Servais, P.; Sylvestre, E.; Dorner, S. (2021). Automated Targeted Sampling of Waterborne Pathogens and Microbial Source Tracking Markers Using Near-Real Time Monitoring of Microbiological Water Quality. *Water*, 13, 2069. <https://doi.org/10.3390/w13152069>
- Sylvestre, É., Prévost, M., Burnet, J.-B., Smeets, P., Medema, G., Hachad, M., & Dorner, S. (2021). Using surrogate data to assess risks associated with microbial peak events in source water at drinking water treatment plants. *Water Research*, 200, 117296. <https://doi.org/10.1016/j.watres.2021.117296>. *In press*
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- Cazals, M., Stott, R., Fleury, C., Proulx, F., Prévost, M., Servais, P., Dorner, S., & Burnet, J.-B. (2020). Near real-time notification of water quality impairments in recreational freshwaters using rapid online detection of β -D-glucuronidase activity as a surrogate for *Escherichia coli* monitoring. *Science of The Total Environment*, 720, 137303. <https://doi.org/10.1016/j.scitotenv.2020.137303>
- Sylvestre, É., Burnet, J., Dorner, S., Smeets, P., Medema, G., Villion, M., Hachad, M., & Prévost, M. (2020). Impact of Hydrometeorological Events for the Selection of Parametric Models for Protozoan Pathogens in Drinking-Water Sources. *Risk Analysis*, risa.13612. <https://doi.org/10.1111/risa.13612>
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- Demeter, K., Burnet, J.-B., Stadler, P., Kirschner, A., Zessner, M., & Farnleitner, A. H. (2020). Automated online monitoring of fecal pollution in water by enzymatic methods. *Current Opinion in Environmental Science & Health*, 16, 82–91. <https://doi.org/10.1016/j.coesh.2020.03.002>
- Burnet, J.-B., Sylvestre, É., Jalbert, J., Imbeault, S., Servais, P., Prévost, M., & Dorner, S. (2019). Tracking the contribution of multiple raw and treated wastewater discharges at an urban drinking water supply using near real-time monitoring of β -d-glucuronidase activity. *Water Research*, 164, 114869. <https://doi.org/10.1016/j.watres.2019.114869>
- Burnet, J.-B., Dinh, Q. T., Imbeault, S., Servais, P., Dorner, S., & Prévost, M. (2019). Autonomous online measurement of β -D-glucuronidase activity in surface water: Is it suitable for rapid *E. coli* monitoring? *Water Research*, 152, 241–250. <https://doi.org/10.1016/j.watres.2018.12.060>
- Stadler, P., Loken, L. C., Crawford, J. T., Schramm, P. J., Sorsa, K., Kuhn, C., Savio, D., Striegl, R. G., Butman, D., Stanley, E. H., Farnleitner, A. H., & Zessner, M. (2019). Spatial patterns of enzymatic activity in large water bodies: Ship-borne measurements of beta-D-glucuronidase activity as a rapid indicator of microbial water quality. *Science of The Total Environment*, 651, 1742–1752. <https://doi.org/10.1016/j.scitotenv.2018.10.084>
- Ender, A., Goeppert, N., Grimmeisen, F., & Goldscheider, N. (2017). Evaluation of β -d-glucuronidase and particle-size distribution for microbiological water quality monitoring in Northern Vietnam. *Science of The Total Environment*, 580, 996–1006. <https://doi.org/10.1016/j.scitotenv.2016.12.054>
- Stadler, P., Blöschl, G., Vogl, W., Koschelnik, J., Epp, M., Lackner, M., Oismüller, M., Kumpan, M., Nemeth, L., Strauss, P., Sommer, R., Ryzinska-Paier, G., Farnleitner, A. H., & Zessner, M. (2016). Real-time monitoring of beta-d-glucuronidase activity in sediment laden streams: A comparison of prototypes. *Water Research*, 101, 252–261. <https://doi.org/10.1016/j.watres.2016.05.072>

Further references (articles, oral presentations, poster presentations)

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- Beyer-Reiter, J., & Vogl, W. (2019). *Rapid detection of microbiological contamination by measurements of specific enzymatic activity*. IWA-HRWM, Vienna.
- Vogl, W. (2019). *Rapid enzymatic activity measurement as an indicator of microbiological contamination—Results after 6 years of validations and experiments in different applications*. IWA-ASPIRE, Hong Kong.
- Burnet, J.-B. (2018). *Tracking the contribution of multiple treated wastewaters and CSO discharges at drinking water intakes by online E. coli monitoring*. Water Quality Technology Conference 2018, Toronto, Canada.
- Vogl, W. (2018). *Rapid detection of microbiological contamination by measurements of specific enzymatic activity – Results after 4 years of validations and experiments in different applications*. WISA 2018, Cape Town, South Africa.
- Burnet, J.-B. (2017a). *Analytical validation of automated high frequency monitoring of beta-D-glucuronidase activity in drinking water supplies*. 2017 AWWA Water Quality Technology Conference, Portland, Oregon.
- Burnet, J.-B. (2017b). *Automated high frequency monitoring of beta-D-glucuronidase activity in drinking water supplies in Québec, Canada*. UNC Water Microbiology Conference 2017 & 19th International Symposium on Health-Related Water Microbiology, Chapel Hill, NC, USA.
- Lackner, M., Stadler, P., & Grabow, W. (Eds.). (2017). *Handbook of Online and Near-real-time Methods in Microbiology*. CRC Press.
- Milne, J., Madarasz-Smith, A., & Davie, T. (2017). *Recreational water quality monitoring and reporting in New Zealand*.
- Stott, R. (2017). *Moving to real-time measurement of microbial health risks in rivers* [Presentation]. 5th Biennial Symposium of the International Society for River Science, Hamilton, New Zealand.
- Sylvestre, É. (2017). *Do Current Regulatory Monitoring Frameworks Account for Microbial Risk Associated with Peak Contamination Events?* UNC Water Microbiology Conference 2017, Chapel Hill, NC, USA.
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- Koschelnic, J. (2014b). *Rapid analysis of beta-D-glucuronidase activity in water using fully automated technology*. Water Pollution 2014, Portugal.
- Vogl, W. (2014a). *Automatisierte Messung der mikrobiologischen Wassergüte für die Prozesssteuerung*. VDI Workshop, Vienna, Austria.
- Vogl, W. (2014b). *Measurement of fecal contamination (E. coli, Coliforms)*. Water Innovation, Brussels, Belgium.
- Vogl, W. (2013a). *Quantitative Real-Time Fluorescence Spectrometer for Automated Analysis of Microbial Contamination in Surface/Sanitary Water*. Tradeshow Wasser Berlin, Berlin, Germany.
- Vogl, W. (2013b). *Rapid Analysis of Microbial Contamination in Water*. Acquea 2013, Brussels, Belgium.
- Vogl, W. (2013c). *Rapid Detection of E. coli in Surface Waters for Quality and Health Monitoring Using Fluorescence-Based ColiMinder V*. WaterMicro2013 - 17th International Symposium on Health-Related Water Microbiology, Florianópolis, Brazil.