

السيرة الذاتية

المدرس الدكتور مصطفى طارق خضير العقيدى

الجامعة المستنصرية / كلية الهندسة

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ملخص تعريفي:

- حاصل على شهادة الدكتوراة في الهندسة المدنية من جامعة فيرار-ايطاليا. مختص في تصميم وإدارة محطات معالجة مياه الصرف الصحي للمدن والمستشفيات, محطات تنقية مياه الشرب, إزالة الملوثات و المخاطر البيئية

الشهادات الدراسية:

- دكتوراة في الهندسة المدنية, جامعة فيرار-ايطاليا (2013) بدرجة امتياز
- بكالوريوس هندسة مدنية, جامعة بغداد (2003)

الجوائز والتكريم الاكاديمي:

- شهادة الدكتوراة الاوربية نتيجة للتعاون البحثي في انجاز اطروحة الدكتوراة بين جامعة فيرارا في ايطاليا والكلية الامبراطورية في لندن (2013)

الخبرة الاكاديمية والتدريس:

- محاضر بلقب علمي (مدرس) في قسم الهندسة المدنية-كلية الهندسة-الجامعة المستنصرية منذ 2015 ولغاية الان

المقررات الدراسية التي تم تدريسها:

| الدراسات الاولى | الدراسات العليا |
|---|-----------------|
| هندسة امدادات المياه للمرحلة الرابعة هندسة الصرف الصحي والبيئة للمرحلة الرابعة | |

الانتساب المهني والجمعيات:

- عضو في نقابة المهندسين العراقية منذ 2004 ولغاية الان
- عضو في نقابة الاكاديميين العراقيين منذ 2018 ولغاية الان

المنشورات العلمية:

• وقائع مؤتمرات

- 1. Galletti A., AL Aukidy M., Verlicchi P., Petrovic M., Barcelò D.;Pharmaceuticals removal in a H-SSF treating a secondary domestic wastewater – an experimental investigation, Proc. IWA Conference Wetland Systems for Water Pollution Control, Venice October 2010, 382-384, ISBN 978-88-6060-300-5.
- 2. Verlicchi P., Galletti A., Al Aukidy M., Pasti L., Marchetti N., Evaluation of sulphametoxazole and ciprofloxacin removal processes in a horizontal subsurface flow system: an experimental investigation.Proc. IWA Conference Wetland Systems for Water Pollution Control, Venice October 2010, 1045-1047, ISBN 978-88-6060-300-5.

الإستاذ المساعد الدكتور
علي جبار كاظم

لشؤون العلمية والدراسات العليا

الأستاذ المساعد الدكتور
نبراس نزار عبد الحميد
رئيس قسم الهندسة المدنية

- 3. Verlicchi P., Al Aukidy M., Galletti A., Chiloiro E., Ranieri E., Experimental investigations on Heavy Metals Removal in H-SSF Systems in Northern and Southern Italy, Proc. IWA Conference Wetland Systems for Water Pollution Control, Venice October 2010, 1048-1050, ISBN 978-88-6060-300-5.
- 4. Verlicchi P., Galletti A., Al Aukidy M., Ranieri E. Ability in removing heavy metals by horizontal subsurface flow constructed wetlands treating secondary effluents. MAGGIOLI EDITORE, Quaderni di ecomondo, pp: 733-738, Anno: 2010.
- 5. Verlicchi P., Galletti A., Al Aukidy M. Best practises in the management of hospital effluents, proc .VI EWRA International symposium-Water Engineering and Management in a Changing Environment. Catania June 29-July 2, 2011.
- 6. Galletti A., Verlicchi P., Al Aukidy M., Petrovic M., Barcelò D. Hospital as a source of emerging contaminants (pharmaceuticals): results of an investigation on its final effluent chemical characteristics. Proc. 12th International Conference on Environmental Science and Technology. 8-10 September 2011 Rhodes, Greece. P.578-587.
- 7. Verlicchi P., Al Aukidy M., Galletti A., Masotti L., Zambello E., Zanni G. A project for the reuse of reclaimed wastewater in the sensitive area of the Po Valley: treatment sequence and cost/benefit analysis. Proc. 8th International Conference on Water Reclamation and Reuse. 26-29 September- Barcelona, Spain.
- 8. Verlicchi P., Al Aukidy M., Jelic A., Petrovic M. Exposure assessment of pharmaceuticals in wastewaters and surface water - the case study of the catchment area of Ferrara. oral presentation at 12th on Tecnologie Sostenibili per la Tutela dell'Ambiente, Milano, 26 – 29 Giugno 2012.
- 9. M. Al Aukidy , P. Verlicchi, A. Jelic , M. Petrovic. Monitoring and Risk Assessment of Pharmaceutical Compounds in Two WWTP Effluents and Their Receiving Rivers in the Po Valley, Italy. Poster presentation at the Ecotechnologies for Wastewater Treatment International Conference, 25-27 June 2012 Santiago de Compostela, Spain.
- 10. Al Aukidy M, Verlicchi P, Zambello E. Environmental Risk Assessment of Pharmaceutical Compounds as a Tool for the Management of Hospital Effluents. Poster presentation at the Micropol & Ecohazard Conference Zurich, Switzerland 16-20 June 2013.
- 11. Verlicchi P., Al Aukidy M., Zambello E., Venditti S., Klepizewski K. Perspectives in the treatment of hospital wastewater. Poster presentation at IWA World Water Congress and Exhibition 2014. 21-26 September Lisbon, Portugal.
- 12. Al Aukidy M., Verlicchi P., Zambello E., Malavasi M., Bariani C. CSOs vs. WWTP effluent: their contribution to the discharged load of micro-pollutants and E. coli in a coastal area. Oral presentation at the Micropol & Ecohazard Conference Vienna, Austria 17-20 September 2017.
- 13. Al Aukidy M., Verlicchi P. Emerging pathogens and new frontiers for drinking water disinfection. Oral presentation at Emerging pollutants in drinking water: regulatory aspects, technological solutions for control and management experiences, Rimini, Italia 7 November 2017.

• المشاركة في تأليف الكتب

- 1. Verlicchi P., Galletti A., Al Aukidy M., Masotti L., Perspectives in Water disinfection, Nova Publisher, Kelly M. Buchanan, 2011, p 77-108. ISBN 978-1-61122-021-6.
- 2. Verlicchi P., Al Aukidy M., Galletti A., Masotti L. Caratterizzazione e opzioni di trattamento degli effluenti ospedalieri. Chapter in "Xenobiotici e contaminanti emergenti L'analisi, il controllo ed il trattamento nelle acque reflue civili, industriali e di falda", INCA editor 2012.

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- 3. Verlicchi P, Galletti A, Al Aukidy M. Hospital Wastewaters: Quali-quantitative Characterization and Strategies for Their Treatment and Disposal, Springer. In: SK Sharma and R Sanghi (Eds), Water Treatment And Pollution Prevention: Advances in Research, Springer, UK, 2012.
- 4. Verlicchi P., Zambello E., Al Aukidy M. Removal of pharmaceuticals by conventional wastewater treatment plant. Chapter in "Analysis Removal Effects and Risk of Pharmaceuticals in the Water Cycle" edited by Elsevier, 2013.
- 5. Verlicchi P., Zambello E., Al Aukidy M. Removal of personal Care Products in Constructed Wetlands. Chapter in "Personal Care Products in the Aquatic Environment" edited by Dr. Silvia Díaz Cruz and Prof. Dr. Damià Barceló, 2014.
- 6. Al Aukidy M., Al Chalabi S., Verlicchi P. Hospital wastewater treatments adopted in Asia, Africa, and Australia. Chapter in "Hospital Wastewaters - Characteristics, Management, Treatment and Environmental Risks". Springer, 2018.
- 7. Oliveira T., Al Aukidy M., Verlicchi P. Occurrence of common pollutants and pharmaceuticals in hospital effluents. Chapter in "Hospital Wastewaters - Characteristics, Management, Treatment and Environmental Risks". Springer, 2018.

• بحوث عالمية


- 1. Paola Verlicchi , Mustafa Al Aukidy, Alessio Galletti, Mira Petrovic, Damia Barceló. Hospital Effluent: Investigation of the Concentrations and Distribution of Pharmaceuticals and Environmental Risk Assessment. Science of the Total Environment. 2012 430;109-118.
- 2. Verlicchi P, Al Aukidy M, Zambello E. Occurrence of Pharmaceutical Compounds in Urban Wastewater: Removal, Mass Load and Environmental Risk after a Secondary Treatment – A Review. Science of the Total Environment. 2012 429; 123-155.
- 3. Paola Verlicchi, Mustafa Al Aukidy, Alessio Galletti, Elena Zambello, Giacomo Zanni, Luigi Masotti. Reuse of Reclaimed Wastewater in the Environmentally Sensitive Po Valley, Italy. The case of the Ferrara Wastewater Treatment Plant: Polishing Sequence and Cost-Benefit Analysis. Journal of Hydrology 432–433 (2012) 127–136.
- 4. Al Aukidy M., Verlicchi P., Jelic A., Petrovic M., Barcelo D. Monitoring release of pharmaceutical compounds: Occurrence and environmental risk assessment of two WWTP effluents and their receiving bodies in the Po Valley, Italy. Science of the Total Environment 438 (2012) 15 – 25.
- 5. Verlicchi P., Galletti A., Petrovic M., Barcelò D., Al Aukidy M., Zambello E., Removal of Selected Pharmaceuticals from Domestic Wastewater in an Activated Sludge System followed by a Horizontal Subsurface Flow Bed – Analysis of their respective contributions. Science of the Total Environment (2013) 454-455;411-425.
- 6. Verlicchi P., Al Aukidy M., Jelic A., Petrovic M. Barcelo D. Comparison of measured and predicted concentrations of selected pharmaceuticals in wastewater and surface water: a case study of a catchment area in the Po Valley (Italy). Science of the Total Environment. 2014, 470-471; 844-854.
- 7. Al Aukidy M., Verlicchi P., Voulvoulis N. A framework for the assessment of the environmental risk posed by pharmaceuticals originating from hospital effluents. Science of the Total Environment. 2014, 493, 54-64.
- 8. Verlicchi P., Al Aukidy M., Zambello E. What have we learned from worldwide experiences on the management and treatment of hospital effluent? — An overview and a discussion on perspectives. Science of the Total Environment 2015, 514, 467-491.


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- 9. Al Aukidy M., Verlicchi P. Contributions of combined sewer overflows and treated effluents to the bacterial load released into a coastal area. Science of the total environment 2017, 607-608, 483-496.
- 10. Verlicchi, P.; AL Aukidy, M.; Zanni, G. Willingness to Pay for Recreational Benefit Evaluation in a Wastewater Reuse Project. Analysis of a Case Study. Water 2018, 10, 1, 1-18.
- 11. De Battisti, Achille; Formaglio, Paolo; Ferro, Sergio; Al Aukidy, Mustafa; Verlicchi, Paola. Electrochemical disinfection of groundwater for civil use – An example of an effective endogenous advanced oxidation process. CHEMOSPHERE 2018, 207,1, 101-109.
- 12. Saeb F. Saeed, Ayad S. Mustafa, Mustafa Al Aukidy. Assessment of Flood Frequency Using Maximum Flow Records for the Euphrates River, Iraq IOP Conference Series: Materials Science and Engineering, Volume 1076, 2nd International Scientific Conference of Engineering Sciences (ISCES 2020) 16th-17th December 2020, Diyala, Iraq
- 13. Saeb Al Chalabi, Mustafa Al Aukidy. Sensitivity of Water Surface Elevation Level in the Tigris River within Baghdad city to the Changes in the Value of Mannings Roughness Coefficient, International Journal of Science and Research (IJSR), Volume 7 Issue 8, August 2018, 553 - 561

تطوير المهارات:

- شهادة طرق التدريس
- شهادة كفاءة الحاسوب
- شهادات مشاركة في العديد من الندوات والمؤتمرات المحلية والعالمية
- شهادات مشاركة في العديد من ورش العمل في كل من: ايطاليا, اسبانيا, فرنسا


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 لمشروع البنية التحتية والدراسات العليا




 الأستاذ المساعد الدكتور
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Curriculum Vitae

Dr. Mustafa Al Aukidy

Mustansiriyah University-College of Engineering

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PERSONAL SUMMARY:

Dr. Mustafa Al Aukidy is currently working as a lecturer at Mustansiriyah University /Iraq. He has completed his Ph.D. in Civil Engineering from University of Ferrara, Italy. His main area of expertise includes Wastewater treatment, Water treatment, Environmental Risk, Emerging pollutants, Constructed wetlands, Pharmaceuticals in the Environment.

EDUCATION:

- Ph.D. in Civil Engineering from the University of Ferrara, Italy (2013) with Excellent grade
- B.Sc.in Civil Engineering from the University of Baghdad, Iraq (2003)

ACADEMIC HONORS AND AWARDS:

- Doctor Europaeus 2013
- Award of outstanding contribution in reviewing (Science of the total environment journal, April 2017)
- Award of outstanding contribution in reviewing (Journal of cleaner production, July 2017)

ACADEMIC / TEACHING EXPERIENCE

- #1: Lecturer in the Department of Civil Engineering/College of Engineering/Mustansiriyah University/Baghdad/Iraq since 2015 till now

courses Taught:

| Under graduate | Graduate |
|--|----------|
| Water supply (4 th class) Sewage and Environmental Engineering (4 th class) | |

PROFESSIONAL AFFILIATIONS:

- Member of Iraqi Engineering Union from 2003 till now
- Member of Iraqi Academics Union from 2018 till now

PUBLICATIONS:

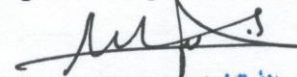
- **Conference proceedings**
- 1. Galletti A., AL Aukidy M., Verlicchi P., Petrovic M., Barcelò D.;Pharmaceuticals removal in a H-SSF treating a secondary domestic wastewater – an experimental investigation, Proc. IWA

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Conference Wetland Systems for Water Pollution Control, Venice October 2010, 382-384, ISBN 978-88-6060-300-5.

- 2. Verlicchi P., Galletti A., Al Aukidy M., Pasti L., Marchetti N., Evaluation of sulphametoxazole and ciprofloxacin removal processes in a horizontal subsurface flow system: an experimental investigation. Proc. IWA Conference Wetland Systems for Water Pollution Control, Venice October 2010, 1045-1047, ISBN 978-88-6060-300-5.
- 3. Verlicchi P., Al Aukidy M., Galletti A., Chiloiro E., Ranieri E., Experimental investigations on Heavy Metals Removal in H-SSF Systems in Northern and Southern Italy, Proc. IWA Conference Wetland Systems for Water Pollution Control, Venice October 2010, 1048-1050, ISBN 978-88-6060-300-5.
- 4. Verlicchi P., Galletti A., Al Aukidy M., Ranieri E. Ability in removing heavy metals by horizontal subsurface flow constructed wetlands treating secondary effluents. MAGGIOLI EDITORE, Quaderni di ecomondo, pp: 733-738, Anno: 2010.
- 5. Verlicchi P., Galletti A., Al Aukidy M. Best practises in the management of hospital effluents, proc .VI EWRA International symposium-Water Engineering and Management in a Changing Environment. Catania June 29-July 2, 2011.
- 6. Galletti A., Verlicchi P., Al Aukidy M., Petrovic M., Barcelò D. Hospital as a source of emerging contaminants (pharmaceuticals): results of an investigation on its final effluent chemical characteristics. Proc. 12th International Conference on Environmental Science and Technology. 8-10 September 2011 Rhodes, Greece. P.578-587.
- 7. Verlicchi P., Al Aukidy M., Galletti A., Masotti L., Zambello E., Zanni G. A project for the reuse of reclaimed wastewater in the sensitive area of the Po Valley: treatment sequence and cost/benefit analysis. Proc. 8th International Conference on Water Reclamation and Reuse. 26-29 September- Barcelona, Spain.
- 8. Verlicchi P., Al Aukidy M., Jelic A., Petrovic M. Exposure assessment of pharmaceuticals in wastewaters and surface water - the case study of the catchment area of Ferrara. oral presentation at 12th on Tecnologie Sostenibili per la Tutela dell'Ambiente, Milano, 26 – 29 Giugno 2012.
- 9. M. Al Aukidy , P. Verlicchi, A. Jelic , M. Petrovic. Monitoring and Risk Assessment of Pharmaceutical Compounds in Two WWTP Effluents and Their Receiving Rivers in the Po Valley, Italy. Poster presentation at the Ecotechnologies for Wastewater Treatment International Conference, 25-27 June 2012 Santiago de Compostela, Spain.
- 10. Al Aukidy M, Verlicchi P, Zambello E. Environmental Risk Assessment of Pharmaceutical Compounds as a Tool for the Management of Hospital Effluents. Poster presentation at the Micropol & Ecohazard Conference Zurich, Switzerland 16-20 June 2013.
- 11. Verlicchi P., Al Aukidy M., Zambello E., Venditti S., Klepiszewski K. Perspectives in the treatment of hospital wastewater. Poster presentation at IWA World Water Congress and Exhibition 2014. 21-26 September Lisbon, Portugal.
- 12. Al Aukidy M., Verlicchi P., Zambello E., Malavasi M., Bariani C. CSOs vs. WWTP effluent: their contribution to the discharged load of micro-pollutants and E. coli in a coastal area. Oral presentation at the Micropol & Ecohazard Conference Vienna, Austria 17-20 September 2017.
- 13. Al Aukidy M., Verlicchi P. Emerging pathogens and new frontiers for drinking water disinfection. Oral presentation at Emerging pollutants in drinking water: regulatory aspects,



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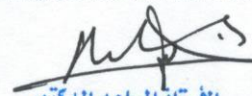
technological solutions for control and management experiences, Rimini, Italia 7 November 2017.

- **Book's chapter**

- 1. Verlicchi P., Galletti A., Al Aukidy M., Masotti L., Perspectives in Water disinfection, Nova Publisher, Kelly M. Buchanan, 2011, p 77-108. ISBN 978-1-61122-021-6.
- 2. Verlicchi P., Al Aukidy M., Galletti A., Masotti L. Caratterizzazione e opzioni di trattamento degli effluenti ospedalieri. Chapter in "Xenobiotici e contaminanti emergenti L'analisi, il controllo ed il trattamento nelle acque reflue civili, industriali e di falda", INCA editor 2012.
- 3. Verlicchi P., Galletti A., Al Aukidy M. Hospital Wastewaters: Quali-quantitative Characterization and Strategies for Their Treatment and Disposal, Springer. In: SK Sharma and R Sanghi (Eds), Water Treatment And Pollution Prevention: Advances in Research, Springer, UK, 2012.
- 4. Verlicchi P., Zambello E., Al Aukidy M. Removal of pharmaceuticals by conventional wastewater treatment plant. Chapter in "Analysis Removal Effects and Risk of Pharmaceuticals in the Water Cycle" edited by Elsevier, 2013.
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- 6. Al Aukidy M., Al Chalabi S., Verlicchi P. Hospital wastewater treatments adopted in Asia, Africa, and Australia. Chapter in "Hospital Wastewaters - Characteristics, Management, Treatment and Environmental Risks". Springer, 2018.
- 7. Oliveira T., Al Aukidy M., Verlicchi P. Occurrence of common pollutants and pharmaceuticals in hospital effluents. Chapter in "Hospital Wastewaters - Characteristics, Management, Treatment and Environmental Risks". Springer, 2018.

- **International journals**

- 1. Paola Verlicchi , Mustafa Al Aukidy, Alessio Galletti, Mira Petrovic, Damia Barceló. Hospital Effluent: Investigation of the Concentrations and Distribution of Pharmaceuticals and Environmental Risk Assessment. Science of the Total Environment. 2012 430;109-118.
- 2. Verlicchi P, Al Aukidy M, Zambello E. Occurrence of Pharmaceutical Compounds in Urban Wastewater: Removal, Mass Load and Environmental Risk after a Secondary Treatment – A Review. Science of the Total Environment. 2012 429; 123-155.
- 3. Paola Verlicchi, Mustafa Al Aukidy, Alessio Galletti, Elena Zambello, Giacomo Zanni, Luigi Masotti. Reuse of Reclaimed Wastewater in the Environmentally Sensitive Po Valley, Italy. The case of the Ferrara Wastewater Treatment Plant: Polishing Sequence and Cost-Benefit Analysis. Journal of Hydrology 432–433 (2012) 127–136.
- 4. Al Aukidy M., Verlicchi P., Jelic A., Petrovic M., Barcelo D. Monitoring release of pharmaceutical compounds: Occurrence and environmental risk assessment of two WWTP effluents and their receiving bodies in the Po Valley, Italy. Science of the Total Environment 438 (2012) 15 – 25.
- 5. Verlicchi P., Galletti A., Petrovic M., Barcelò D., Al Aukidy M., Zambello E., Removal of Selected Pharmaceuticals from Domestic Wastewater in an Activated Sludge System followed by a Horizontal Subsurface Flow Bed – Analysis of their respective contributions. Science of the Total Environment (2013) 454-455;411-425.
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- study of a catchment area in the Po Valley (Italy). Science of the Total Environment. 2014, 470-471; 844-854.
- 7. Al Aukidy M., Verlicchi P., Voulvoulis N. A framework for the assessment of the environmental risk posed by pharmaceuticals originating from hospital effluents. Science of the Total Environment. 2014, 493, 54-64.
 - 8. Verlicchi P., Al Aukidy M., Zambello E. What have we learned from worldwide experiences on the management and treatment of hospital effluent? — An overview and a discussion on perspectives. Science of the Total Environment 2015, 514, 467-491.
 - 9. Al Aukidy M., Verlicchi P. Contributions of combined sewer overflows and treated effluents to the bacterial load released into a coastal area. Science of the total environment 2017, 607-608, 483-496.
 - 10. Verlicchi, P.; AL Aukidy, M.; Zanni, G. Willingness to Pay for Recreational Benefit Evaluation in a Wastewater Reuse Project. Analysis of a Case Study. Water 2018, 10, 1, 1-18.
 - 11. De Battisti, Achille; Formaglio, Paolo; Ferro, Sergio; Al Aukidy, Mustafa; Verlicchi, Paola. Electrochemical disinfection of groundwater for civil use – An example of an effective endogenous advanced oxidation process. CHEMOSPHERE 2018, 207,1, 101-109.
 - 12. Saeb F. Saeed, Ayad S. Mustafa, Mustafa Al Aukidy. Assessment of Flood Frequency Using Maximum Flow Records for the Euphrates River, Iraq IOP Conference Series: Materials Science and Engineering, Volume 1076, 2nd International Scientific Conference of Engineering Sciences (ISCES 2020) 16th-17th December 2020, Diyala, Iraq
 - 13. Saeb Al Chalabi, Mustafa Al Aukidy. Sensitivity of Water Surface Elevation Level in the Tigris River within Baghdad city to the Changes in the Value of Mannings Roughness Coefficient, International Journal of Science and Research (IJSR), Volume 7 Issue 8, August 2018, 553 - 561

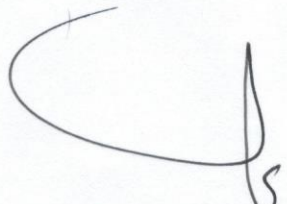
PROFESSIONAL DEVELOPMENT:

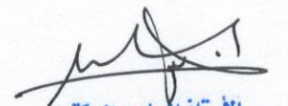
- **Certificate**
- Certificate of Teaching Method
- Certificate of Computer proficiency
- **Conferences.**
- ▪ 4-8 October 2010 12th IWA Conference Wetland Systems for Water Pollution Control, Venice, Italy
- ▪ June 29-July 2, VI EWRA International symposium-Water Engineering and Management in a Changing Environment. Catania 2011, Italy
- ▪ 8-10 September 2011, 12th International Conference on Environmental Science and Technology -Rhodes, Greece.
- ▪ 26-29 September 2011, 8th International Conference on Water Reclamation and Reuse. - Barcelona, Spain.
- ▪ 25-27 June 2012, the ECOSTP Ecotechnologies for Wastewater Treatment 2012 International Conference, Santiago de Compostela, Spain.
- ▪ 19-20 September 2012, Pills final conference “ Pharmaceutical input and elimination from local sources”, Gelsenkirchen, Germany.
- ▪ 16-20 June 2013, Micropollutants and Hazardous Substances, Zurich, Switzerland.
- ▪ 17-20 September 2017, Micropollutants and Hazardous Substances, Vienna, Austria.

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- ▪ 26-28 September 2017, Third General Assembly (GA3) of the project SafeWaterAfrica, Stellenbosch, South Africa.
- ▪ 7 November 2017, Emerging pollutants in drinking water: regulatory aspects, technological solutions for control and management experiences, Rimini, Italy.
- ▪ 14-16 March 2018, Fourth General Assembly (GA4) of the project SafeWaterAfrica, Ciudad Real, Spain.
- **Workshops.**
- ▪ Micropollutant Management in the Urban Water Cycle, 09/07/2018-13/09/2018, Irstea, Lyone, France.
- ▪ Innovative technologies for urban wastewater treatment plants, 28/06/2012- 04/07/2012, University of Santiago di Compostela, Spain.
- ▪ Water, Wastewater and soil treatment by advance Oxidation Process, 06/07/2010- 09/07/2010, University of Salerno, Italy.




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