

Summer School 201: Water and health in urban systems - toxicology and epidemiology, microbiology and risk assessment

Week 1							
	Monday, 28.09.	Tuesday 29.09.	Wednesday 30.09.	Thursday 01.10.	Friday 02.10.	Saturday 03.10.	Sunday 04.10.
Morning	Welcome & introduction 11:00 - 11:30: WELCOME ADDRESS 11:30 - 12:00: PRESENTATION Introduction: University of Duisburg Essen / ZWU Dr. Michael Eisinger (UDE; Managing Director ZWU) 12:00 - 13:00: LECTURE: Novel cultural landscapes in the Ruhr metropolis	Water & culture 09:00 - 10:00: LECTURE: Water, Hygiene and Culture 10:00 - 11:00 PRESENTATIONS: Water and Culture in ... <ul style="list-style-type: none"> ▪ Cambodia ▪ Iran ▪ Indonesia Presentations by fellows I (20' each) 11:00 - 11:30 Coffee break 11:30 - 12:30 PRESENTATIONS: Water and Culture in ... <ul style="list-style-type: none"> ▪ Mongolia ▪ Vietnam ▪ Jordan Presentations by fellows II	Cleaning waste water I EXCURSION 09:00 - 10:00: LECTURE: "Reconstruction of the river Emscher system" 10:00 - 12:00: INTRODUCTION: Waste water treatment plant Emscher SITE VISIT	Cleaning waste water II EXCURSION 09:00 - 10:00: LECTURE 1: 10:00 - 10:30: Coffee break 10:30 - 11:00: Transfer to Marienhospital Gelsenkirchen 11:00 - 12:00: SITE VISIT Ozonation plant	Soft Skill Workshop 09:00-12:30: WORKSHOP "Teambuilding for Team Leaders of Intercultural Teams" (part 1) Sonja Drewes	Visit Düsseldorf Departure: 09:00 <ul style="list-style-type: none"> ▪ Guided tour Old town (10:00-12:00) ▪ Free time (12:00-15:30) 	Self-determined day
	Water management 14:00 - 15:00: LECTURE: "Integrated Water Management in Germany" 15:00 - 15:30: Coffee break 15:30 - 17:00: ROUND OF INTRODUCTIONS Short presentations by fellows (5' each)	Clean(?) drinking water I EXCURSION 14:00 - 14:30: LECTURE: "Water extraction/treatment and drinking water supply at NN" 14:30 - 16:00: SITE VISIT 16:00 - 17:00: INTRODUCCION into workshop Definition of groups and tasks Stephan Koeppen/ZWU	Water microbiology & analysis 13:30 - 15:00 LECTURE 1: "Microbial ecology of drinking water" LECTURE 2: NN: Chemical regulations in Europe 15:00 - 15:30 Coffee break 15:30 - 16:30 LECTURE 3: NN	Clean(?) drinking water II EXCURSION 15:00 - 16:00 LECTURE: Micropollutants 16:00 - 16:30 Coffee break 16:30 - 17:30 SITE VISIT LAB tour / visit water pilot plant	Soft Skill Workshop 13:30-17:00: WORKSHOP "Teambuilding for Team Leaders of Intercultural Teams" (part 2) Sonja Drewes	Visit Düsseldorf <ul style="list-style-type: none"> ▪ Boat trip, Media Harbour (15:30-16:30) ▪ Free time (16:30-18:00) Departure to Essen: 18:00	
Evening	Welcome Dinner	Visit Zeche Zollverein, Essen 17:00: Guided tour	Evening Off	Evening Off	Visit Landschaftspark, Duisburg-Nord	Evening Off	

Week 2							
	Monday 05.10.	Tuesday 06.10.	Wednesday 07.10.	Thursday 08.10.	Friday 09.10.	Saturday 10.10.	Sunday 11.10.
Morning	Water and safety I	Water and toxicology	Workshop	Workshop	Workshop	Visit Cologne	Self-determined day Departure
	<p>10:00-11:00 LECTURE <i>sustainable development in communities (1)</i></p> <p>11:00-11:30: <i>Coffee break</i></p> <p>11:30-13:00 LECTURE <i>sustainable development in communities (2)</i></p>	<p>09:00-10:30: LECTURE: <i>Toxicological detection and evaluation of pollutants in water</i></p> <p>10:30-11:00: <i>Coffee break</i></p> <p>11:00-13:00: LAB DEMONSTRATION</p>	09:00 - 12:00: GROUP WORK	09:00 - 12:00 GROUP WORK <i>Finishing of presentations and reports</i>	09:00 - 13:00 PRESENTATION of the workshop results	Departure: 09:00 ▪ Guided tour Old town (10:30 -13:00)	
Afternoon	Water and sustainability	Water and safety II	Workshop	Water, epidemiology & metabolism	Workshop	Visit Cologne	<ul style="list-style-type: none"> ▪ Free time (13:00-15:30) ▪ Cathedral – Guided tour (15:30 -16:30) Departure to Essen: 17:00
	<p>14:00 - 15:30 LECTURE: <i>Risk assessment and water safety plan</i></p> <p>15:30-16:00: <i>Coffee break</i></p> <p>16:30 - 17:30: LECTURE <i>Save Ruhr . – swimming waters and drink water for the Ruhr are</i></p>	<p>14:00-15:30: LECTURE <i>Water and sanitation in crisis regions: how to get water to the people?</i></p> <p>15:30-16:00: <i>Coffee break</i></p>	13:00 - 17:00 GROUP WORK	<p>13:00-14:30 LECTURE: <i>“Water and Health: the Epidemiological Perspective”</i></p> <p>14:30 - 15:00: <i>Coffee break</i></p> <p>15:00 - 16:00: LECTURE: <i>“Metabolism of Water and Human Health”</i></p>	<p>14:00-15:00 DISCUSSION: <i>Transfer of results to home countries</i></p> <p><i>Discussion of problems and perspectives</i></p> <p>15:00-15:30: <i>Coffee break</i></p> <p>15:30 - 16:30 FINAL LECTURE: <i>“Water and religion”</i></p>		
Evening	Optional evening program	Optional evening program	Cultural excursion, Essen	Evening Off	Farewell Dinner		