

- Expertise
- Chemical fingerprinting
 - Environmental impact and risk assessments
 - Contaminant fate and transport
 - Environmental due diligence
 - Nuclear waste management
 - Environmental law enforcement

Summary

Dr. Carlo Monti is the managing director of forensics at TIG (TIG Environmental) SAGL in Pregassona, Lugano (CH). He holds a master's degree in biology (hydrobiology) from the University of Milan (IT) and a Ph.D. in environmental sciences from the University of Parma (IT) and the University of California, Davis (USA). Dr. Monti is a recognized expert in the field of environmental forensics, focusing on chemicals such as dichlorodiphenyltrichloroethane (DDT), polychlorinated biphenyl (PCBs), and polycyclic aromatic hydrocarbons (PAHs). He has more than 25 years of experience evaluating the environmental impacts of river flow regulation and alteration; chemical release and fate in watersheds, lakes, coastal lagoons, and seawaters; and the field of nuclear energy. He has broad project experience in assessing environmental impacts on aquatic and terrestrial biota from human activities, including nutrient releases that cause eutrophication; chemical releases (including mercury, arsenic, and various persistent and high-toxicity organics); energy production; and activities of the oil and gas industry.

Dr. Monti has completed numerous environmental impact assessments and risk assessments of areas and resources affected by industrial discharge in water ecosystems. Study locations include: Europe (Italy, Switzerland, France, Spain, Slovenia, Germany, Albania, Slovakia), North Africa, South America (Chile, Argentina, Brazil, and Paraguay), Central America (Costa Rica), Asia (Uzbekistan, Kazakhstan, China, India), and the Middle East and Gulf area (Egypt, Kuwait, Saudi Arabia). His primary targets have been the release of highly toxic chemicals, the thermic impact of warm discharges from energy plants, and industrial impacts on ecosystems, both aquatic and terrestrial. Dr. Monti has consulted for the Italian Government to develop and enforce Italian laws related to soil, sediment, and groundwater risk assessment and environmental damage assessment. He also has wide experience in the environmental effects of dismantling and decommissioning nuclear plants, and of nuclear waste management.

Professional
Experience

Chemical Forensics

Managed a source apportionment and a health impact study for a coal fired energy plant in Chile. The study included a mass transfer study by using heavy metals isotopes, and is currently ongoing.

Studied the pollution of the sediments of Central Italian port with the aim of identifying the pollutants' origin. Part of the study has been done through the use of heavy isotopes. The study is ongoing.

Performed a chromium isotope characterization of the two sources and completed a source apportionment based on the results.

Reconstructed the pollution history of a site in Switzerland and identified responsible sources. This effort compared gasoline and diesel chromatograms over time to identify the aging effects on the chemical fingerprints.

Conducted a detailed study of food-web contamination in the Marano e Grado Lagoon due to wastewater discharges containing PCDD/Fs and mercury from a chloralkali plant. A detailed fingerprint analysis incorporated multivariate statistics to study sediments and the food web, with emphasis on mussels and clams.

Used multivariate statistics to conduct a fingerprint analysis of polychlorinated dibenzo-p-dioxins/dibenzofurans (PCDD/Fs) in the ambient air of Ferrara, Italy. He completed an emissions and a source apportionment study.

Studied sediments in canals and rivers that received industrial wastewaters containing PCDD/Fs and PCBs. Assessed the evolution of the PCDD/F fingerprint over time and the effects of degradation in the environment via dechlorination and degradation. The fingerprint study was filed in the court of Brescia and used in a forensic case.

Developed a strategy for regulators to study PCDD/Fs found in mozzarella cheese in the Caserta Province of Italy. The strategy focused on concentrations in the cheese and in environmental media, and employed a parallel study on the feed of buffalos in the area. The two studies enabled the authorities to solve the problem of PCDD/Fs in the mozzarella.

Performed a study on the origin of wastes stored on an abandoned factory in Northern Italy.

Developed a mass transfer study of mercury and dioxins from an old dumping site to a river and lakes system in Northern Italy with the aim to evaluate the environmental and health impact of the old wastes on the rivers system. The study has been conducted by using a hydrological model and a pattern of stable isotopes including mercury.

Provided expert consultation on the potential mechanisms of recontamination in a tidal channel by conducting a forensic examination using statistical techniques to distinguish between potential upland sources and deep sediments.

Environmental Impact and Risk Assessments

Managed a forensic project to quantify health damages using a European Environment Agency procedure as part of the ENEL (Rome) Porto Tolle health damage assessment. Reviewed the procedure and communicated conclusions to the legal team.

Developed a site assessment plan and a site recovery plan for two chrome plating facilities in northern Italy that were affected by hexavalent chromium and chlorinated hydrocarbons.

Managed the high-profile ILVA Taranto health damage assessment from 2010 until 2013. Coordinated the team conducting many studies to identify sources and allocate responsibility in a complex, multi-emission scenario. In the health damage assessment phase, the team released five major documents:

1. A risk assessment for various environmental media in Taranto
2. A review of the reported PCDD/F and PCB concentrations in goat and sheep tissues and milk
3. A critique of the epidemiological report that was released by the judge's consultants
4. An analysis of the few data PCDD/F and PCB levels in human breast milk.
5. In the source apportionment effort, the team conducted fingerprint analysis of the PCDD/F and PCB patterns in environmental media and the food web, comparing the fingerprints to emission profiles of the various ILVA sources and other sources in the study area. Portions of the team's reports have been presented in hearings at the Westminster Court in London.

Used a coupled oxidation and bioremediation approach to conduct a site assessment and develop a recovery plan for a BTEX-polluted site in Lugano, Switzerland.

Conducted a site assessment and health risk assessment, and developed a conceptual plan for management of a historical iron/steel manufacturing facility in Ticino, Switzerland. The facility deposited blast-furnace-waste dust in landfills, which contained heavy metals, PAHs, PCDD/Fs, and PCBs.

Evaluated health and environmental risks due to wastewater released to the Durance River (Provence, France) by a chlorinated hydrocarbon facility that supported a chloralkali facility. Studied food-web migration of mercury, PCDD/Fs, and PCBs from sediments.

Studied historical wastewater discharges from a chlorinated hydrocarbon facility to the River Durance (Provence, France), and the resulting environmental risk and fish bioaccumulation of mercury, dioxins, and PCBs.

Managed the data collection, integration, gap analysis, and health and environmental risk assessments of the Gela (Sicily) national site. Developed the health and environmental risk assessments and reviewed all data related to PCDD/Fs and mercury in all environmental matrices and the food web.

Conducted site characterization, risk assessment, and design for a soil and groundwater polluted site in the Trieste national site (benzene, toluene, ethylbenzene and xylene [BTEX], hydrocarbons, chlorinated hydrocarbons). Gas Natural, Spain.

Managed the site assessment, health and risk assessment, and development of the recovery and management plan for a site in the Gulf of Trieste that was polluted by BTEX, chlorinated hydrocarbons, and PCDD/Fs. Developed the food-web contaminant migration assessments and interpreted the inter-related data from the various environmental and biotic systems.

Studied climatic conditions that remobilized DDT in the Lago Maggiore basin (Italy), and the risk associated with re-suspension from the deep bottom sediments of the lake, including bioaccumulation in the pelagic fish community (Coregonids and trout). Activities included DDT aging using ratios of DDT/dichlorodiphenyldichloroethane (DDD)/dichlorodiphenyldichloroethylene (DDE), based mostly on publicly available data.

Managed a feasibility study of a deep CO₂ sequestration project to support to a urea plant located in the deep Sahara Desert of Algeria.

Conducted a sustainability and impact mitigation project for an oil field in the Congo. Focused primarily on management of wastes and saline waters produced by oil drilling activities.

Managed the site assessment, risk assessment, and development of the groundwater and soils recovery plan for an industrial site in northern Italy affected by BTEX and chlorinated hydrocarbons.

Conducted risk assessment and remediation of two chlorinated hydrocarbon sites in the Milan area of northern Italy. Activities included a health risk assessment as related to site groundwater.

Critically reviewed soil and groundwater risk assessments and recovery plans for media affected by BTEX and heavy metals released from petroleum storage facilities.

Conducted health and environmental risk assessments for the Sardinian coastline and sea affected by releases from a landfill that received waste from an aluminum smelter. Evaluated effects of heavy metals, PAHs, and PCDD/Fs on key marine species.

Managed the environmental and risk assessments for soil and groundwater recovery design in highly fractured area close to the Gulf of Trieste. Reconstructed the transport and fate of chlorinated hydrocarbons from a coastline cliff and evaluated their impact on marine life.

Conducted an environmental impact assessment and a health risk study on Vozrozhdeniya Island in the Aral Sea. The island hosted a Soviet army facility that tested biological weapons, until the dissolution of the USSR. Because of drought in the Aral Sea, the island was connected to the shoreline. The study therefore determined the risk of certain bacteria spreading from the island to the mainland and assessed approaches to clean up the island.

Managed a site assessment and human/environmental risk assessment of agriculture soils, groundwater, and sediments of a freshwater canal system in Caffaro, Brescia (Italy) polluted by industrial discharge of PCBs. Developed fate and transport models and assessed food-web migration and source apportionment.

Managed a site assessment, health/environment risk assessments, and soils and sediments recovery plan for Caffaro's Torviscosa site (northern Italy). Studied food-web effects of chlorinated hydrocarbons, PAHs, TCDD/Ds, PCBs, and mercury. Evaluated effects on the biota of the Marano and Grado Lagoon that received industrial wastewaters, in particular the migration of Hg from sediments to biota. Developed a conceptual design for a permeable reactive barrier to prevent Hg transport in brackish waters.

Conducted risk assessment of climate-change effects on remobilization of PCDD/Fs and PCBs in soils and sediments of the Regi Lagni area (southern Italy). Modeled PCDD/F and PCB mobilization due to runoff from intense precipitation and assessed effects on the water quality and accumulation in river sediments, and resulting bioaccumulation in the food web and buffalo.

Conducted environmental impact studies for two oil platforms located in the Lybian Sea (Bouri field).

Managed a site assessment and risk assessment related to landfills in central Italy that contain naturally occurring radioactive material (NORM).

Assessed effects of a large hydroelectric development on fish on the Paranà river in the Posadas and Encarnacion area (Argentina and Paraguay). Studied the fish community and fishery activity between Iguazu Falls and the Yaciretà Dam, and the resulting risk to human health due to fish consumption.

Developed a screening environmental impact assessment for the Rogun Dam in Tajikistan.

Managed a preliminary evaluation of environmental damages caused by the sinking of the Prestige tanker off the coastline of Galicia, Spain. Focused on the environmental risk assessment, particularly the bioaccumulation of PAHs and persistent organic pollutants (POPs) by fish in aquaculture operations.

Assessed the environmental impact of warm discharge from a thermoelectric plant on coral reefs in the area of Sharm-el-Sheik, Egypt.

Led a task force that evaluated environmental damages caused by the Baia Mare (Romania) cyanide spill. Assessed the effects of heavy metals (As, Cd, Pb, Cu) and cyanide on fresh water, sediments, groundwater, and biota. Focused primarily on the fish community and fishery economy of the Danube River, concluding that the impact there was much smaller than experienced by the rivers that directly received the spill.

Evaluated the environmental effects of the Aznacollar acid sulphide tailings spill in Spain on the Donana Delta on wildlife and humans due to rice cultivation. Conducted ecotoxicological testing to assess chronic effects and bioaccumulation potential in rice and other vegetables. Analyzed the animal component of the system for heavy metals concentration over a 3-year period. Identified and evaluated recovery strategies for the wide area affected.

In the 14-year Trecate oil well blowout remediation project (North Italy), began work as a junior scientist studying risks to the aquatic food web and the freshwater grid that encompassed rice fields that were inundated periodically. By project close in 2010, was managing the environmental and health risk evaluations related to the freshwater food web.

Studied the effects of low-level contamination by DDT/DDD and DDE on the bionomics of the whitefish and perch population of Lake Maggiore. Focused primarily on the long-term effects on population dynamics.

Studied in-lake and sediment treatments for Lake Bidighinzu (Sardinia) to control proliferation of toxic Cyanophyta in water to be used for human consumption. Identified and evaluated sediment treatment methods to prevent eutrophication of the lake.

Performed an environmental impact assessment and a biodiversity impact study for construction of a railroad to transfer coal from a mining zone to the port of Antseraka, Madagascar.

Chaired a forensic consultant team studying environmental and health risks related to PCDD/Fs, mercury, and arsenic discharged to the Venice Lagoon from the client company's chloralkali facility. Participated in a risk assessment to apportion risk among the various chemicals and differentiate among potential sources. Efforts included chemical fingerprinting, and studies of biota that included the filtering bivalves embedded in the sediments, and on mussels.

Conducted an experimental study of the migration of diisopropylnaphthalene from the cardboard used to pack pasta to the pasta itself. Used results to assess risk to consumers.

Conducted various limnological studies on nine Italian lakes during 1994–2000, in relation to eutrophication and micropollutants (POPs and heavy metals).

Recreational fishery management plans with special emphasis to Salmonidae management and conservation (Italy). FIPS (Roma). Conducted several studies in 1994–1998 of recreational fishery management and conservation of Salmonid populations in alpine rivers of the Apennines.

Conducted extensive studies on the effects of water discharges from pulp-and-paper plants on the recipient freshwater systems (in Italy, Austria, and Slovenia). Looked at the effects on the biota of PCDD/Fs accumulation over time in the river sediments. In alpine, freshwater systems, studied the effects on brown trout populations in terms of bioaccumulation and growth, and the long-term effects of PCDD/Fs as hormonal disruptors and the cause of chronic ecotoxicological effects (fertility reduction and others). Developed a

biological wastewater treatment plan that employed biological degradation to reduce PCDD/F and other organics concentrations at the point of loading.

Principal scientist for investigations of the environmental effects of wastewater discharge from the Silva group (Milan) facility that produced synthetic polyphenols and natural tannic acid through digestion of chestnut wood. Assessed the ecotoxicological effects of PCPs and tannic acid on freshwater biota, and the effects of carbon, phosphorus, and nitrogen enrichment on the alpine freshwater system that received the wastewaters.

Assessed the trophic state of a coastal lagoon in northern Italy (River Po' Mouth, North Italy), to identify the trophic limiting factor that was evidenced by low concentrations of soluble organic carbon (1991–1996).

Over 8 years, conducted various studies of the effects of water withdrawal due to hydroelectric production on macrobenthos and fish populations.

Developed and evaluated predictive methods to assess effects of minimum discharge from hydroelectric facilities on benthos and fish populations in rivers of the South Alps and Appennines, ENEL and Lombardy Region (1992–2000).

Conducted extensive research in fisheries management, with a focus on optimizing stock evaluation and exploitation. Applied quantitative whitefish management techniques in northern Italian lakes, especially Lake Maggiore, during 1992–1996.

For the Government of Switzerland, studied dioxin/PCB pollution of the Mekong River, Laos and Cambodia, due to use of the herbicide Agent Orange. Focused on POPs, with emphasis on dioxins and furans.

Studied trout population dynamics in alpine streams for ENEL (Roma). Conducted multiple population ecology studies on the brown trout in alpine streams, during 1991–1993.

Applied instream flow incremental methodology (IFIM) to the Bio-Bio River (Chile). Evaluated activities to mitigate effects of hydroelectric generation and water consumption.

Studied fish biodiversity and the effects of recent aquaculture activities on the Bio-Bio River (Chile).

Evaluated POPs in the Bio-Bio river basin and their impact on fish communities. Studied the use of POPs and their concentrations in different environmental media and human foodstuffs, with the aim of developing management tools to reduce the health effects connected to the ingestion of contaminated foodstuffs.

Studied POPs in soils, sediments, and the food web of the Bio-Bio River basin (Chile) resulting from pulp and paper production and agriculture, for the Italian Ministry of Foreign Affairs.

Conducted a social and environmental impact assessment for the construction of a series of five dams in the upper part of the Bio-Bio River basin (Chile). Focused on management of the native population and conservation of the biodiversity.

Member of a team that developed the management plan for the Bio-Bio River in central Chile. Working for the Italian Ministry of Foreign Affairs, managed the evaluation of fish ecology and contamination, applying biological indicators to detect pollutants.

Developed a recovery plan for the sediments of Lake Muzzano (Lugano, Switzerland), to manage the trophic state of the lake and also prevent contamination of the food web due to high levels of PCDD/Fs in the lake sediments. Modeled PCDD/F and mercury transfer from the sediments to fish, and validated the model against various parameters measured in the field.

Conducted third-party review of the site assessment and the soils and groundwater recovery plan, including its economical sustainability, for a northern Italy refinery site. An important part of the study was analysis of the available data set using explorative and multivariate statistics to check the influence of water level in the Po' River on contamination of the connected groundwater.

Studied the population dynamics of a pristine river population of brown trout in the upper part of the Bio-Bio River. Focused on defining a management plan for the population, which is one of the last in South America to be sustained by the migration of brown trout from the sea.

Worked on the team developing the river basin management plan. Evaluated the effects of macrocontaminants (P and N) on freshwater trophic levels of the river basin, and of microcontaminants (heavy metals, pesticides, and PCDD/Fs) on the river's biota. Conducted extensive studies on human populations and communities of the river basin, together with extensive chemical analysis of environmental media. The study

identified major risks to the biotic communities due to industrial activities, including those of pulp and paper mills.

Contaminant Fate and Transport

Evaluated the effects of dust remobilization by wind on the Ticino River.

Managed a mercury and POPs fate and transport and environmental and health risk study in the River Mincio-Mantua Lakes system of northern Italy, that received releases from a factory in Mantova. Analyzed the degradation pathways of various PCB congeners in marine sediments from a polluted site in Sardinia, Italy.

Led a team of experts studying emissions of PCDD/Fs due to an industrial accident in Venice. Developed a numerical air dispersion model to estimate the degradation of PCDD/F congeners in the atmosphere. Presented the results in the Court of Venice as an expert witness.

Environmental Due Diligence

Conducted Phase I and II environmental due diligence projects (1995–2015) for the following companies:

- Magneti Marelli Group (Automotive)
- Falk Group (Iron and steel)
- Pirelli Group (Automotive)
- Impregilo Group (Construction)
- Cromoplastica International SpA (Automotive)
- Brembo SpA (Automotive)
- Gypsum SpA (Mining)
- CanCom SpA
- TAMOIL Group (Oil and gas)
- Caffaro SpA (Chemical)
- Italmatch SpA (Chemical)
- Krombach (Heavy industry)
- ILVA SpA (Iron and steel)
- SARAS Group (Refinery)
- AGIP (ENI Group) (Refinery)
- ALCOA Group (Metallurgy)
- Orthofix SpA (Medical)
- Funivie SpA (Mining)
- Others (a complete list is available on request)

Nuclear Waste Management

Conducted the following studies in the nuclear power generation arena:

- Project manager to evaluate the decommissioning and dismantling plan for the iTREC uranium-thorium research reactor at the Trisaia site (for SOGIN, Italy)
- Project manager for decommissioning and dismantling consultancy activities related to the CIEMAT research reactor and adjacent facilities in Madrid, Spain (for ENRESA, Spain)
- Project manager for NORM and TE-NORM waste disposal legislation review (for APAT, Italy)
- Project manager for a MOX vs. conventional U fuel economic and LCA analysis (for SOGIN, Italy)
- 07/15
- Project manager for a technical feasibility evaluation of the CEMEX cementation plant at the Saluggia (Italy) site. Conducted a technology evaluation and environmental impact assessment study (for SOGIN, Italy)
- Project manager in to study organic solution treatment technology for high-level radiological liquid wastes (for SOGIN, Italy)
- National representative for the U.S. Department of Energy in the Megaports Project, to deploy technologies for the control of illegal trafficking in nuclear material in Italian ports
- Project manager for a GEN IV liquid Na cooled fast reactor U.S. Nuclear Regulatory Commission (NRC) license application (for a private client, USA and Europe)
- Project manager for a U/Th spent fuel regeneration and final disposal project (for SOGIN, Italy)

Environmental Law Enforcement

Performed a study about the implementation of new laws in China with regards to the POPs actually listed in the Stockholm convention and to the substances that will be likely added to that list in the next 3–5 years. The study regarded a company in the area of iron and steel industry.

Conducted a responsibility allocation for a historical industrial waste dump site in Paris. Included chemical characterization and classification of the wastes according to French and EU regulations.

Served on the following Italian and international teams related to environmental law enforcement, plans, and governmental activities:

- 2015–present. Secretary and coordinator of the working group on Climate change and dams and reservoirs management of ITCOLD
- 2004–2005. Member of the Italian Ministry of Environment team for the definition and writing of the Italian environmental law frame Legislative Decree n. 152/2006. In charge of the technical groups on environmental damage assessment and soil and groundwater recovery. Member of the water group. (Italian government)
- 2003–2006. Development of procedures for environmental damage assessment evaluation (APAT, Roma)
- 2003–2006. Analysis of the international literature and the laws enforced in Western countries regarding environmental damage assessment procedures (ARPAV, Venice)
- 2005. Waste management law enforcement in international waste trading activities (private client)
- 1996. Development of a water management plan (Lombardy region)
- 2002–2006. Consultant to the Director General of APAT in the area of POPs in water systems (APAT, Roma)
- 2003. Consultant to the Italian Ministry of Environment in the area of POPs in water systems (APAT, Roma)
- 2004. Representative of the Italian Government in the EU group, “Quantitative world water management” (Bruxelles, Belgium)
- 2004. Representative of the Italian Government in the EU group, “Environmental advanced research–water” (Bruxelles, Belgium)
- 1998–2000. Representative of the Italian Government in the EIFAC Commission (FAO, Roma)

Expert Witness

2014. Expert witness to the Court of Westminster (UK) related to the source apportionment and food-web accumulation of dioxins, furans, and PCBs due to emissions from a factory in Taranto, southern Italy.
2009. Expert witness to the Court of Lugano related to a fingerprint analysis of a fuel spill.
2005. Expert witness to the Court of Torino related to the environmental damage assessment of contaminated sediments in Lake Maggiore.
2001. Expert witness to the Court of Venice related to the environmental and health risk assessment of dioxins, furans, PCBs and heavy metals on the biota of the Venice Lagoon.
2000. Expert witness to the Court of Verbania (VB) related to the environmental risk associated with the presence of DDT, DDD, and DDE in the sediments of Lake Maggiore.
2000. Expert witness to the Court of Venice related to the health effects of a VCM and dioxin accidental emission.
1993. Expert witness to the Court of Rhò (Milan) related to the environmental impact of the wastewater discharge of a paper-industry facility on the Canale Industriale.
1991. Expert witness to the Court of Cuneo related to the environmental impact of wastewater discharge from the ICL plant (polyphenols and tannins) on the River Corsaglia.

Prior Experience

- Senior Managing Scientist, Exponent International, Basel, Switzerland, 2010-2017
- Senior Marketing Manager, Battelle, Geneva Research Center, Geneva, Switzerland. 2005–2009
- Vice President, Battelle Italy, Rome, Italy, 2003–2007
- Senior Scientist, Battelle, Geneva Research Center, Geneva, Switzerland, 1994–2005
- Director General, GRAIA srl, Varano Borghi, Italy, 1989–1994
- Consultant, Self-employed, 1987–1989

Academic Qualifications

- Ph.D., Environmental Sciences, Italian Institute of Hydrobiology, Verbania, VB (Italy) and University of California, Davis (USA), 1987
- B.S., Biology, Milano State University, 1982

Professional Honors	<ul style="list-style-type: none"> • A. Garbini Prize for Hydrobiology, Verona Municipality, Verona, 1988 • IN/ARCH Prize for Environmental Impact Assessment, 1989, National Architecture Institute, Roma
Professional Training and Affiliations	<ul style="list-style-type: none"> • Qualified Biologist No. 34252 • Royal Chemistry Society • SETAC Europe
Language Skills	<ul style="list-style-type: none"> • Italian (native), English (fluent), French, German, Spanish (intermediate)
Publications	<p>Mudge S, Monti C, Pozzi C. Identifying the sources of chemical contamination after the fact. In: R. Morrison and G. O'Sullivan (eds), <i>Environmental forensics: Proceedings of the 2013 INEF Conference</i>, 2014, pp. 230–237.</p> <p>Patterson DG Jr, Monti C, Shields W. Dioxin in human milk and serum from Taranto, Italy. <i>Organohalogen Compounds</i> 2014; 76:861–864.</p> <p>Monti C, Shields W, Edwards M, Pozzi C. Fingerprint analysis of PCDD/F in soil samples in the Taranto (Puglia, Italy) area. <i>Organohalogen Compounds</i> 2014; 76:830–833.</p> <p>Aylward L, Monti C, Edwards M, Shields W. Dioxins in sheep and goat liver tissues from Taranto, Italy: Congener pattern. <i>Organohalogen Compounds</i> 2014; 76:403–406.</p> <p>Bigham G, Gard N, Monti C, Pozzi C. The remediation regimes. In: <i>The EU Environmental Liability Directive: A Commentary</i>. Bergkamp L, Goldsmith B (eds), Oxford University Press, 2013. 371 pp.</p> <p>Bigham G, Pozzi C, Monti C. Using mercury isotopic signatures to trace steel plant atmospheric emissions in southern Italy. <i>Proceedings of the ICOEST, Cappadocia, Turkey</i>. June 8–21, 2013.</p> <p>Brothers A, Mattigod S, Strachan D, Beeman G, Kearns P, Papa A, Monti C. Resource-limited multiattribute value analysis of alternatives for immobilizing radioactive liquid process waste stored in Saluggia, Italy. <i>Decision Analysis</i> 2009; 6(2):98–114.</p> <p>Sanders G, Monti C, Porta A, Pellei M. Spatial distribution of PCDD/Fs in surface sediments of the canals and lagoon of Venice. In: <i>Characterization of Contaminated Sediments</i>. Proceedings, International Conference on Remediation of Contaminated Sediments. Venice, October 10–12, 2001. Marco Pellei, Augusto Porta and Rob Inchee eds. Battelle Press, 2002; 227–237.</p> <p>Grimaldi E, Monti C, Gentili G, Puzzi C. Caratteristiche e struttura del popolamento a coregoni (<i>Coregonus</i> spp.) del lago maggiore dopo la recente introduzione di una seconda forma a riproduzione litorale. <i>Commissione Italo-Svizzera per la Pesca, Ricerche sulle acque italo-svizzere nel quadriennio 1992–1995</i>. 1997; 2:15–49.</p> <p>Calderoni A, Monti C, Polli B. Andamento della pesca professionale nelle acque italo- svizzere. Periodo 1978–1991. <i>Commissione Italo-Svizzera per la Pesca</i> 1994; 1: 84 pp.</p> <p>Campos H, Monti C. El componente biológico del sistema acuático del río Biobío. Siena, <i>Publicaciones EULA</i> 1992; 1:71–78.</p> <p>Monti C. La pesca professionale nel Lago maggiore: analisi e gestione in relazione alla ecologia delle popolazioni e alla evoluzione delle comunità ittiche. <i>Amm.ne Prov.le Varese</i> 1989; 102 pp.</p> <p>Bonacina C, Bonomi G, Monti C. Population analysis in mass cultures of <i>Tubifex tubifex</i>. <i>Hydrobiologia</i> 1988; 180:127–134.</p> <p>Bonacina C, Bonomi G, Monti C. Density-dependent processes in cohorts of <i>Tubifex tubifex</i>, with special emphasis to the control of the fecundity. <i>Hydrobiologia</i> 1988; 180:135–141.</p> <p>Bonacina C, Bonomi G, Monti C. Progress in cohort cultures of aquatic oligochaeta. <i>Hydrobiologia</i> 1987; 155:163–169.</p>

Adreani L, Bonacina C, Bonomi G, Monti C. La comunità macrobentonica profondo del Lago Maggiore: Situazione attuale e significato delle modificazioni qualitative e quantitative intervenute. Commissione Internazionale per la protezione delle acque italo-svizzere. Campagna 1987; 1985: 91–130.

Bonacina C, Bonomi G, Monti C. Population dynamics of *Tubifex tubifex*, first settler in the profundal of a copper and ammonia polluted, recovering lake (L. Orta, North Italy). *Hydrobiologia* 1987; 155:305.

Monti C. Population regulation in *Psammoryctides barbatus* Grube (Oligochaeta: Tubificidae). *Mem. Ist. Ital. Idrobiol* 1986; 44: 223–241.

Bonacina C, Bonomi G, Monti C. Oligochaete cocoons remains as evidence of past lake pollution. *Hydrobiologia* 1986; 143:395–400.

Adreani L, Bonacina C, Bonomi G, Monti C. Cohort cultures of *Psammoryctides barbatus* (Grube) and *Spirosperma ferox* Eisen: A tool for a better understanding of demographic strategies in Tubificids. *Hydrobiologia* 1984; 115:113–120.

Presentations
and Lectures

Rose N., T. Negley, C. Monti, “Evaluating the Challenges of Using Disparate Data Sets in Forensic Methods.” Presentation, Battelle – Tenth International Conference on Remediation and Management of Contaminated Sediments, New Orleans, LA, February 2019.

Seminar for Zurich Insurance on the ILVA case and enterprise environmental risk management, 2015

Seminar for NICOLE network on the ILVA case and its effects on the legislation in Europe and its relationships with the enforcement of the ELD Directive, 2015

Seminar at ISE-CNR on the ILVA case, 2015

Lecture at University of Paris Est on dioxins fingerprint analysis at the Soil pollution recovery summer school, 2015