

## CURRICULUM VITAE

Professor

## JUSSI VILHO KALEVI KUKKONEN

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Finland

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Date of Birth: June 4, 1962

Place of Birth: Kontiolahti, Finland

Citizenship: Finland

## EDUCATION:

Year	Institute	Degree	Field
1981	Kontiolahti Senior High School	Graduation	
1985	University of Joensuu	B.Sc.	Biology
1986	University of Joensuu	M.Sc.	Biology
1991	University of Joensuu	Licentiate of Philos.	Biology
1992	University of Joensuu	Ph.D.	Biology/Ecotoxicology

PhD Thesis in ecotoxicology:

Effects of Dissolved Organic Material in Fresh Waters on the Binding and Bioavailability of Organic Pollutants. University of Joensuu, 1991. (Grade: Eximia Cum Laude Approbatur)

**Member of Finnish Academy of Science and Letters.** Invited on May 6, 2009.**European Registered Toxicologist** awarded by Finnish Society of Toxicology and EUROTOX 19.12. 2012

## MILITARY SERVICE:

Oct. 11, 1988 - June 7, 1989 in KarJP (Karelian Jaeger Battalion), Kontiolahti, Finland

Military status: corporal

## CURRENT POSITION

**PROFESSOR** in Ecotoxicology. University of Eastern Finland, Department of Environmental and Biological Sciences, P.O.Box 1627, FIN-70211, Kuopio, Finland. **(Oct. 1, 2019 - present)**

## RESEARCH EXPERIENCE:

**ACADEMY PROFESSOR** (financed by The Academy of Finland), University of Eastern Finland, Department of Biology, Joensuu, Finland. **(Aug. 1, 2005 - July 31, 2010)****SENIOR SCIENTIST** (financed by The Academy of Finland), University of Joensuu, Department of

Biology, Joensuu, Finland. (Aug. 1, 2003 - July 31, 2004)

VISITING SENIOR SCIENTIST, NOAA, Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, Michigan 48105, USA (Aug. 1, 2000 - July 30, 2001).

SENIOR SCIENTIST (financed by The Academy of Finland), University of Joensuu, Department of Biology, Joensuu, Finland. (Aug. 1, 1999 - July 31, 2000)

RESEARCHER, (financed by The Academy of Finland/Research Council for Environmental Sciences) University of Joensuu, Department of Biology, P.O.Box 111, FIN-80101 Joensuu, Finland. (Aug. 1, 1993 - Aug. 31, 1995)

VISITING SCIENTIST, NOAA, Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, Michigan 48105, USA (March 3, 1992 - July 20, 1993).

RESEARCH ASSOCIATE, (financed by Academy of Finland/Research Council for Environmental Sciences) University of Joensuu, Department of Biology, P.O.Box 111, FIN-80101 Joensuu, Finland. (Jan. 1, 1990 - July 31, 1992).

JUNIOR RESEARCHER, University of Joensuu, Department of Biology, P.O.Box 111, FIN-80101 Joensuu, Finland. (Apr. 1, 1986 - Dec. 31, 1989; time includes several short term contracts of employment).

VISITING SCIENTIST, Environmental Science Division, Oak Ridge National Laboratory, Oak Ridge, TN. (Feb. 1, 1988 - July 31, 1988).

VISITING SCIENTIST, Center for Industrial Research, P.O.Box 350, Blindern, N-0314 Oslo 3, Norway. (March 1, 1987 - May 31, 1987).

RESEARCH TECHNICIAN, University of Joensuu, Department of Biology, P.O.Box 111, FIN-80101 Joensuu, Finland. (Oct. 1, 1984 - March 31, 1989; time includes several short term contracts of employment).

## **FACULTY POSITIONS AND OTHER TEACHING EXPERIENCE**

**PROFESSOR in Ecotoxicology.** University of Eastern Finland, Department of Environmental and Biological Sciences, P.O.Box 1627, FIN-70211, Kuopio, Finland. (Oct. 1, 2019 - present)

**PROFESSOR** in Environmental Science. University of Jyväskylä, Department of Biological and Environmental Science, P.O.Box 35, FIN-40014 Joensuu, Finland. (April 1, 2012 - Dec. 31, 2019)

**Head of the Finnish Graduate School** for Environmental Sciences and Technology, University of Eastern Finland as a coordinating university. (Jan. 1, 2003 - Dec. 31, 2015)

**Director of Sino-Finnish Environmental Research Center (SFERC,** A joint center with University of Eastern Finland and Nanjing University). (March 25, 2010 - March 31, 2012)

**PROFESSOR** in Biology, especially in Ecotoxicology. University of Eastern Finland, Department of Biology, P.O.Box 111, FIN-80101 Joensuu, Finland. (Sept. 1, 1998 - March 31, 2012)

**ASSOCIATE PROFESSOR** in Biology, especially in Ecotoxicology. University of Joensuu, Department of Biology, P.O.Box 111, FIN-80101 Joensuu, Finland. (Sept. 1, 1995 - Aug. 31, 1998)

**DOCENT** in Ecotoxicology, especially in Aquatic Toxicology, University of Joensuu, Department of Biology, P.O.Box 111, FIN-80101 Joensuu, Finland. (May 11, 1994 - October. 30, 1996)

**ASSISTANT** in Ecotoxicology, University of Joensuu, Department of Biology, P.O.Box 111, FIN-80101

Joensuu, Finland. (Sep. 1, 1991 - March 17, 1993).

#### INTERNATIONAL EXPERT ASSIGNMENTS

- 05.03.2015 -2021 **Member of the Panel of Experts for Environmental Disputes, Permanent Court of Arbitration.** The Hague, The Netherlands.
- 06/2007 External reviewer (member of the panel) of the quality of science in graduate school "Socio-Economic and Natural Sciences of the Environment (SENSE)", The Netherlands
- 23.2. - 24.3 2000 Member of the international expert team on UNEP/OCHA assessment mission evaluating the environmental effects caused by the mining accident in Baia Mare, Romania. The team was nominated by United Nations.

#### NATIONAL EXPERT ASSIGNMENTS

- 1.1.2022 -31.12.2024 Chair of the Research Council for Biosciences Health and the Environment of the Academy of Finland.
- 1.1.2022 -31.12.2024 Chair of the Subcommittee for Climate Change and Health Academy Programme, Academy of Finland.
- 1.1.2022 - 31.12.2024 Vice-Chair of the Subcommittee for Radiation Detectors for Health, Safety and Security Academy Programme, Academy of Finland
- 20.9.2020 - 31.3.2021 Member of the scientific support group for renewing of the national chemical program. The group is nominated by the ministry of environment.
- 1.1.2019 - 31.12.2021 Member of the Research Council for Biosciences Health and the Environment of the Academy of Finland.
- 25.2.2019-31.12.2021 Chair of the Subcommittee for Climate Change and Health Academy Programme, Academy of Finland.
- 25.2.2019-31.12.2021 Vice-Chair of the Subcommittee for Radiation Detectors for Health, Safety and Security Academy Programme, Academy of Finland
- 13.7.2018 -31.1.2019 Chair of the Committee preparing the Climate Change and Health Academy Program.
- 12.10.2016-28.2.2018 Member of the steering committee for project "INKI" (Coordinated by University of Jyväskylä)
- 1.1.2016 -31.12.2018 Member of the Research Council for Biosciences and Environment of the Academy of Finland
- 1.11.2013-29.4.2015 Member of the steering committee for project "FICAM" (Coordinated by University of Tampere)
- 21.2.2013-30.1.2015 Member of the Advisory Panel to minimize the environmental problems caused by peat mining. Group was nominated by the provincial government of Central Finland.
- 1.10.2012-31.3.2014 Member of the steering committee for project "TANDEM" (coordinated by Institute for Environmental Research, Univ. Jyväskylä)
- 21.8.2012-30.6.2014 Member of the steering committee for project "HUMUSVESI" (coordinated by VTT)
- 04/2010 - 12/2014 Member of the committee for harmful substances. Committee was nominated by Ministry of Agriculture and Forestry to give advice on harmful substances.
- 2007 - 2009 Chair of the expert board for proposal evaluation of Maj and Tor Nessling Foundation.
- 9/2007-3/2008 Member of the evaluation committee for the QA/QC system of the University of Helsinki
- 2004 - 2006 Member of the expert board for proposal evaluation of Maj and Tor Nessling Foundation.
- 4/2003 - 12/2008 Member of steering committee for Laboratory of Finnish Environment Institute (committee was nominated by Ministry of the Environment)
- 1994 - present A member of the national advisory group in biotesting. The group is nominated by the Finnish Environment Institute.

## REVIEWER OF SCHOLARSHIP FOR ACADEMIC POSITIONS

- LUT University, Lappeenranta, Finland, Review of Prof. Shichang Kang's scholarship for the Title of Docent in Environmental Change Research. November 2019.
- University of Helsinki, Helsinki, Finland, Review of Dr. Maranda Esterhuizen-Londt's scholarship for the Title of Docent in Ecotoxicology. May 2019.
- University of Eastern Finland, Kuopio, Finland, Review of Assoc.Prof. Amit Bhatnagar's scholarship for full professorship. March 2019.
- University of Helsinki, Helsinki, Finland, Review of Dr. Nan Hui's scholarship for docentship. November 2017.
- Roskilde University, Roskilde, Denmark. Evaluation of the applicants (three altogether) for full professorship with special responsibilities in sediment ecotoxicology. February 2017.
- Stony Brook University, School of Marine and Atmospheric Sciences, Stony Brook, NY, USA. Review of Dr. Anne E. McElroy's scholarship for full professorship. August 2011.
- University of Amsterdam, Faculty of Science, Amsterdam, The Netherland. Review of Dr. Michiel Kraak's scholarship for associate professorship. March 2011.
- Southern Illinois University, Department of Zoology, Carbondale, Illinois, USA. Review of Dr. Michael Lydy's scholarship for full professorship. October 2006.
- University of Kuopio, Kuopio, Finland. Review of Dr. Maija Pesonen's scholarship for docentship. October 2005.
- Wichita State University, Fairmount College of Liberal Arts and Sciences, Wichita, Kansas, USA. Review of Dr. Michael Lydy's scholarship for associate professorship. August 1998.

## OPPONENT (external examiner) FOR PhD THESIS

- Sabrina Roth, 2024, University of Helsinki, Finland
- Riikka K. Vainio, 2022, University of Turku, Finland
- Harri Talvenmäki, 2020, University of Helsinki, Finland
- Sanna Mäntynen, 2018, University of Helsinki, Finland
- Ronja Windfeld, 2017, University of Roskilde, Denmark
- Linus Malmquist, 2013, University of Roskilde, Denmark
- Marleena Hagner, 2013, University of Helsinki, Finland
- Anna Lundqvist, 2011, Swedish University of Agricultural Sciences, Uppsala, Sweden
- Sarah Josefsson, 2011, University of Umeå, Umeå, Sweden
- Thomas Hartnik, 2008, University of Life Sciences, Ås, Norway
- Tuomas Lukkari, 2004, University of Jyväskylä, Finland
- Yin Latt Phyu, 2004, University of Technology, Sydney, Australia
- Maria Granberg, 2004, Göteborg University, Sweden
- Jani Häkkinen, 2003, University of Jyväskylä, Finland
- Paul Gaskell, 2003, University of Sheffield, UK
- Henriette Selck, 2003, University of Roskilde, Denmark
- Marja Keinänen, 2002, University of Helsinki, Finland
- Pirjo Mämmelä, 2002, University of Kuopio, Finland.
- Ghislaine Verrhiest, 2001, University of Savoy, France (member of the committee).
- Eric A.J. Bleeker, 1999, University of Amsterdam, The Netherlands (member of the committee).
- Mikael Björk, 1998, University of Stockholm, Sweden.
- Pirkko Kortelainen, 1994, University of Helsinki, Finland (a member of the examination committee, the other members were Prof. Pertti Eloranta (custos) and Prof. David Brakke (opponent))

## PRE-EXAMINER FOR PhD THESIS

- Yaodan Zhang, 2018, University of Eastern Finland
- Ling Li, 2017, University of Helsinki
- Raisa Turja, 2014, University of Helsinki
- Thomas Lilley, 2012, University of Turku
- Anu Kapanen, 2012, University of Helsinki

- Piia Pessala, 2008, University of Helsinki
- Mikko Kiljunen, 2007, University of Jyväskylä
- Pirjo Isosaari, 2004, University of Kuopio
- Petri Porvari, 2003, University of Helsinki
- Jukka Ahtiainen, 2002, University of Helsinki
- Seppo Peuranen, 2000, University of Helsinki
- Anssi Vähätalo, 2000, University of Helsinki
- Esko Martikainen, 1998, University of Jyväskylä
- Soile Juuti, 1997, University of Kuopio

#### EXAMINER FOR LICENTIATE OF PHILOSOPHY THESIS

- Marjo Paavola, 2005, Åbo Akademi
- Kimmo Hautala, 1999, University of Turku
- Harri Leppänen, 1998, University of Jyväskylä
- Kari-Matti Vuori, 1994, University of Jyväskylä
- Janne Salminen, 1994, University of Jyväskylä

#### SUPERVISED THESIS (Kukkonen one of the supervisors)

PhD: Mari Lappalainen (UEF, 2018), Hanna Arola (JYU, 2018), Anna Suuronen (JYU, 2017), Yufei Gu (JYU, 2017), Kaisa Figueiredo (UEF, 2017), Juho Rajala (JYU, 2017), Inna Nybom (UEF, 2015), Greta Waissi (UEF, 2015), Päivi Saari (UEF, 2014), Anni Rautio (UEF, 2014), Carrasco Navarro Victor (UEF, 2013), Pakarinen Kukka (UEF, 2013), Agbo Stanley (UEF, 2013), Jantunen Paula (UEF, 2010), Penttinen Sari (2010, Univ. Helsinki), Sormunen Arto (UJO, 2008), Mäenpää Kimmo (UJO, 2007), Korkea-Aho Tiina (Univ. Kuopio, 2007), Tkatcheva Victoria (UJO, 2007), Koponen Petri (UJO, 2007), Ryökkynen Ari (UJO, 2006), Honkanen Jani (UJO, 2004), Lyytikäinen Merja (UJO, 2004), Mustonen Anne-Mari (UJO, 2003), Akkanen Jarkko (UJO, 2002), Nieminen Petteri (Univ. Helsinki, Env.Medicine, 2002), Ritola Ossi (Univ. Kuopio, 2001), Heinonen Jari (UJO, 2001), Nikkilä Anna (JYU, 2001), Ristola Tiina (UJO, 2000), Hämäläinen Heikki (UJO, 2000), Leppänen Matti (UJO, 1999), Penttinen Olli-Pekka (UJO, 1997), Vuori Kari-Matti (UJO, 1995), Mäkelä Petteri (UJO, 1995)

Licentiate: Kostamo Auli (UJO, 2005), Penttinen Sari (UJO, 2002), Punta Eeva (UJO, 2001), Nikkilä Anna (UJO, 2000), Penttinen Olli-Pekka (UJO, 1996), Soimasuo Reino (UJO, 1994), Mäkelä Petteri (UJO, 1992)

Master: 36 thesis

#### Hosted post-doctoral researchers

Emmanuel Abu-Danso	1.8.2020 - 31.12.2024
Victor Carasco-Navarro	1.7.2020 - present
Hiltunen Minna	1.9.2018 - 31.12.2021
Karjalainen Anna	2014 - 30.4.2018
Vehniäinen Eeva-Riikka	2012 - 2015
Lemmetyinen Juha	2008 - 2010
Petersen Elijah	2007 - 2008
Honkanen Jani	2004 - 2007

#### ADMINISTRATIVE EXPERIENCE

1.1.2022 - present	2 <sup>nd</sup> Vice Dean of the Faculty of Science and Forestry, University of Eastern Finland.
1.10.2019 - present	Director of the Research Program <b>UEF WATER RESEARCH. University of Eastern Finland.</b>
1.1.2018 - 30.9.2019	Vice member of the Faculty Council, the Faculty of Mathematics and

1.1.2018 - 30.9.2019	Science, University of Jyväskylä Member of the Board of the Doctoral Program of Department of Biological and Environmental Science, University of Jyväskylä
1.11.2017 - 31.12.2017	Dean of the Faculty of Mathematics and Science, University of Jyväskylä
1.1.2014 - 31.10.2017	Vice Dean of the Faculty of Mathematics and Science, University of Jyväskylä.
1.1.2014 - 31.12.2017	Member of the Steering Board of the University of Jyväskylä Graduate School for Doctoral Studies
1.1.2014 - 31.12.2017	Head of the Doctoral School of the Faculty of Mathematics and Science, University of Jyväskylä.
1.1.2014 - 31.12.2017	Member of the Faculty Council, the Faculty of Mathematics and Science, University of Jyväskylä
1.6.2012 - 31.12.2016	Member of the Board of the Department of Biological and Environmental Science, University of Jyväskylä.
1.6.2012 - 31.12.2016	Head of the Environmental Science and Technology Division, Department of Biological and Environmental Science, University of Jyväskylä.
1.9.2011 - 31.12.2011	Vice-Head of the Department of Biology, University of Eastern Finland
21.4.2011 - 31.3.2012	Member, The Board of Graduate School of University of Eastern Finland.
1.8.2010 - 20.12.2010	Chair of the committee to draft the guidelines for the Graduate School of University of Eastern Finland.
12.2.2010 - 31.3.2012	Vice-member, Research Council of the University of Eastern Finland
1.1.2010 - 31.3.2012	Member (professor) of the Faculty Council, Faculty of Science and Forestry, University of Eastern Finland
25.3.2010 - 31.3.2012	Director of Sino-Finnish Environmental Research Centre
1.1.2003 - 31.12.2015	Head of the Finnish Graduate School for Environmental Sciences and Technology
1.1.2005 - 31.7.2006	Member (professor) of the Faculty Council, Faculty of Mathematics and Science, University of Joensuu
1.1.2002 - 31.7. 2005	Vice-Head of the Department of Biology, University of Joensuu
1.9.2001 - 31.12. 2001	Head of the Department of Biology, University of Joensuu
10.11. 1998 - 31.7.2000	Member, working party for research development and evaluation in Faculty of Mathematics and Sciences at the University of Joensuu (nominated by the dean)
1.8.1998 - 31.12.2004	Vice-member (professor) of the Faculty Council, Faculty of Mathematics and Science, University of Joensuu
1.8.1998 - 31.7. 2006	Member (professor) of the Department Council
1.1.1995 - 31.7.1998	Member (researcher) of the Department Council
1.8.1993 - 31.8.1995	Scientific coordinator, The post-graduate program in ecotoxicology in Finland. The program was funded by the Academy of Finland.
1.1.1983 - 31.12.1985	Member (student) of the Faculty Council

#### TRAINING ON ADMINISTRATION AND MANAGEMENT

18.9.2014 - 24.4.2015	Participation and completion of the course "Leadership coaching program for vice deans and vice heads of the departments". Organised by Management Institute of Finland (MIF).
April 18-19,2006	Participation and completion the course "Education in China" held at Nordic Centre, Fudan University, Shanghai, China.
Feb. 28, 2001	Participation in seminar "Managing Change" by Dr. Ben Bissell (LuBen Associates) held in Ann Arbor, Michigan. The focus of the seminar was managing change at work places by understanding the dynamics of change.

#### CAREER RELATED ACTIVITIES

10/2014 - 05/2020	member of the Steering Committee of SETAC Sediment Advisory Group
04/2014 - 11/2015	member of the SETAC Europe Postgraduate Education Programme (SE-PEP)

	Registration Committee
05/2010 - 05/2014	member of awards committee of SETAC-EU
05/2010 - 05/2011	Immediate past-president, SETAC-Europe
06/2009 - 05/2010	President, SETAC-Europe
01/2009 - 12/2010	Council member, SETAC World Council
05/2008 - 06/2009	Vice-president, SETAC-Europe
11/2005 - 10/2008	SETAC-Word, science committee member
01/2004 - 12/2005	Board member, Finnish Toxicology Society
04/2003 - 05/2011	Council member, SETAC-Europe
03/2002 - 02/2004	President, Finnish Society for Environmental Sciences
03/2000 - 02/2002	Vice-president, Finnish Society for Environmental Sciences
1993 - 1996	Board member, The national humus research group.
1990 - 1991	Board member, The Union for the Researchers in the Academy of Finland

### EDITOR for JOURNALS

2018 - present	A member of the editorial board, Springer Nature Applied Sciences
2006 - 2011	A member of the editorial board, Ecotoxicology and Environmental Safety
2004 - present	A member of the editorial board, Luonnon Tutkija (journal in Finnish)
2003 - 2004	A member of the editorial board, Environmental Toxicology and Chemistry
2001 - 2011	A member of the editorial board, Journal of Soils and Sediments
2001 - 2015	A member of the editorial board, Chemosphere
1999 - 2001	A member of the editorial board, Environmental Toxicology and Chemistry

### INTERNATIONAL REVIEWER for GRANT PROPOSALS

02/2011	Research project proposal, Discovery Grants Program, Research Council of Canada
06/2006	Research project proposal, Deutsche Forschungsgemeinschaft, Germany
07/2004	Hatch project proposal, Ohio Agricultural Research and Development Center, Ohio State University
06/2003	The Royal Society of New Zealand, Marsden Fund
03/1999	German Research Association
10/1998	The Estonian Science Foundation

### INVITED PRESENTATIONS

Sept. 2019	Invited lecture: Environmental Fate of Nanoparticles (in Finnish). Seminar on nanosafety. 12.9.2019 Helsinki.
May 2016	Keynote lecture: Challenges of Environmental Toxicology for the Future of Globe. Finnish Society of Toxicology, Annual Meeting, 11.-12.5.2016, Oulu, Finland.
July 2013	Keynote lecture: Sediment contact tests: Useful tool for analysing sediment quality. International Conference on Environmental Safety and Ecological Criteria/Standard and The Third Conference of the Committee of Environment & Ecology Toxicology, Chinese Society of Toxicology, and 2013 Conference of the Committee of Environmental Standards & Criteria, Chinese Society for Environmental Sciences. 29.6.- 2.7. 2013, Nanjing, China.
Jan. 2012	Invited lecture: Ecotoxicology and nanomaterials: Do we need ecotoxicological testing. Environmental management and sustainable use of nanocellulose workshop 17.-18.1.2012. Finnish Environmental Institute, Helsinki Finland.
Oct. 2011	Invited lecture: Aquatic effects and fate of nanomaterials in the Nordic environment. Nordic NanoNet Workshop for researchers and regulators on safety evaluation of nanomaterials and Nordic discussion on EDC criteria. Oct. 11-13. 2011, Hanasaari, Espoo, Finland.
March, 2011	Invited lecture: Nanoparticles - A potential risk to aquatic environment. International Workshop on Emerging Contaminants: Environmental Fate and Ecological risk Assessment. Feb. 28 - March 2, 2011. Nanjing University, Nanjing, China.

- July, 2010 Keynote lecture: Sediment pollution ecotoxicity assessment with the oligochaete *Lumbriculus variegatus*. The Workshop of Sediment Pollution Assessment & Remediation in Multiple Countries. July 6-7, 2010, Newcastle University, Newcastle, UK.
- April, 2010 Invited lecture: Environmental stress caused by chemicals. HENVI Science Day, University of Helsinki, 22 April, 2010.
- Sept. 2009 Invited lecture: Bioavailability of organic contaminants in aquatic environment. REP-LECOTOX 2<sup>nd</sup> Workshop, Trends in Ecological Risk Assessment. 21-23 September 2009, Npvi Sad, Serbia.
- June 2009 Keynote: Bioactive chemicals: assessment of emissions and exposures in aquatic ecosystems. 7<sup>th</sup> International Conference on Fate and Effects of Pulp & Paper Mill effluents and 9<sup>th</sup> IWA Symposium on forest Industry Wastewaters. 14-17 June 2009, Fredericton, New Brunswick, Canada
- Jan. 2009 Seminar: Bioavailability of organic compounds in aquatic environments. Invited presentation at Texas Tech University (Invited by Prof. Jonathan Maul).
- Nov. 2008 Keynote: Evaluation of Bioavailability and Toxicity of Chemicals in Sediments. Sediment Contact Tests Reference conditions, control sediments, toxicity thresholds 13-14 November 2008 in Koblenz, Germany.
- 11.12.2006: Seminar: Evaluation of Toxicity and Bioavailability of Chemicals in Sediments: Methods for Laboratory and Field Applications. Invited presentation at Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany. (Invited by Dr. Stephan Pflugmacher).
- April 2006: Seminar: Bioavailability of Organic Chemicals in Sediments. Invited presentation to the faculty and PhD students at Fudan University, Shanghai, China.
- Nov. 2005: Seminar: Bioavailability of Organic Chemicals in Sediments. Invited presentation to the faculty and PhD students at Queen's University, Kingston, Ontario, Canada. (Invited by prof. Peter Hodson).
- June 2005 Keynote: Natural Organic Material and Bioavailability of Organic Contaminants in Aquatic Environments. Invited keynote presentation at: 10th Nordic IHSS Symposium on Character of Natural Organic Matter and its Role in the Environment. June 1 - 3, 2005 University of Latvia, Riga, Latvia.
- Oct. 2002 Testing of bioaccumulation of sediment-associated compounds in invertebrates. Fifth Nord-UTTE Network Meeting: The future EU chemicals policy and implications for development of test methods and testing strategies. 30.9. - 2.10. 2002, Smygehus, Sweden.
- Jan. 2001 The bioavailability of organic contaminants in aquatic ecosystems. Invited presentation at NordTOX2001, 6th Nordic Conference of the Nordic Societies of Toxicology and Environmental Mutagenesis, Beito Mountain Resort, Norway, 24.-28.1. 2001.

#### **ORGANIZED NATIONAL AND INTERNATIONAL COURSES AND MEETINGS**

- May 26-30, 2019 SETAC-Europe 29th Annual Meeting, Helsinki, Finland. (Co-chair of the Scientific committee and co-chair of the local organizing committee).
- Aug. 18-22, 2014 PhD course on Environmental fate and possible effects of nanoparticles: background and laboratory exercises. University of Jyväskylä Summer School. (main organizer).
- Aug. 12-15, 2013 PhD course on Environmental Fate and Possible Effects of Nanoparticles. University of Jyväskylä Summer School. (main organizer)
- May 7-8, 2013 ECHA Topical Scientific Workshop on Risk Assessment for the Sediment Compartment. (Member of the scientific committee).
- Aug. 21-23, 2011 The 2nd conference of the Sino-Finnish Environmental Research Centre (SFERC) on challenges of environmental research and management. Joensuu, Finland (Chair of the organizing committee).
- Feb 7-10, 2011 6th International Conference on Remediation of Contaminated Sediments. New Orleans, Louisiana, USA (member of the steering committee).
- Nov. 2-5, 2009 4th SETAC-Africa meeting, Kampala, Uganda. (member of International Advisory Committee)



- May 14-15, 2009 Ninth Finnish Conference of Environmental Sciences, Lahti, Finland. (Member of the scientific committee).
- Sept. 1-4, 2008 Old sins and new threats in aquatic environments: Utilization of advanced on-site methods in monitoring and risk assessment of organic contaminants. Course for Marie-Curie Network KEYBIOEFFECTS and EU-project MODELKEY. (Chair of the organizing committee)
- June 10-13, 2007 IHSS 11th Nordic-Baltic Symposium. Joensuu, Finland. (Chair of the scientific committee, member of the organising committee)
- May 22-26, 2005 SETAC-Europe 15th Annual Meeting, Lille, France. (member of the scientific committee).
- Aug. 16-21, 2004 Remediation and assessment of sediments contaminated by xenobiotic chemicals, Jyväskylä, Finland (in cooperation with prof. A. Oikari)
- Aug. 25-29, 2003 Quantitative Methods in Ecotoxicology (course lectured by prof. M.C. Newman and financed by the graduate school EnSTe, University of Joensuu.
- May 8-9, 2003 Sixth Finnish Conference of Environmental Sciences. Joensuu, Finland. (Chair of the organising committee)
- May 18-19, 2001 Fifth Finnish Conference of Environmental Sciences. Turku, Finland. (member of the organising committee)
- June 13-23, 1999 Course in Aquatic Ecotoxicology of Boreal Lakes. An international postgraduate course financed by NorFA. University of Joensuu (Chair of the organising committee)
- May 25-29, 1998 Quantitative Methods in Ecotoxicology (course lectured by prof. M.C. Newman and financed by graduate school "Integrated Aquatic Hazard Assessment"), University of Joensuu.
- Aug. 25-28, 1997 7th Nordic Symposium on Organic Pollutants. Kuopio, Finland. (member of the organising committee)
- June 9-12, 1997 6th Nordic Symposium on Humic Substances. Hämeenlinna, Finland. (member of the organising committee)
- April 6-10, 1997 7th Annual Meeting of SETAC-Europe. Amsterdam, The Netherlands. Session chair with Dr. A. Belfroid.
- May 20-27, 1995 Course in Freshwater Ecotoxicology. An international postgraduate course financed by NorFA. Siikasalmi Research Station, University of Joensuu (with Prof. Oikari, Dr. Holopainen and Dr. Lindström-Seppä).
- Oct. 11-13, 1994 Modelling in Ecotoxicology. A national workshop and graduate course financed by The Academy of Finland.
- May 9-19, 1994 Tradition and Recent Advances in Aquatic Ecotoxicology. An international postgraduate course. Siikasalmi Research Station, University of Joensuu (with Dr. Holopainen and Dr. Pellinen).
- Oct. 17-18, 1991 9th National Meeting on Physiology and Physiological Toxicology of Aquatic Organisms. Mekrijärvi Research Station, University of Joensuu, Finland. (member of the organising committee)
- Sept. 11-14, 1989 3rd Nordic Symposium on Organic Environmental Chemicals. Huhmari, Finland. (member of the organising committee)
- Apr. 4-5, 1986 National Symposium on Toxicology; Reproductive Toxicology & Ecotoxicology. Joensuu, Finland. (member of the organising committee)

#### AWARDS etc.

- Dec. 6, 2024 Order of the White Rose of Finland. Knight First Class.
- March 26, 2015 Silver Medal of Federation of Finnish Learned Societies for 20 years academic service.
- May 18, 2011 SETAC-Europe Special Award. "In recognition of outstanding contributions to the Society of Environmental Toxicology and Chemistry"
- 2009 Elected Member of the Finnish Academy of Science and Letters
- June 21, 1993 Joensuu City Science and Research Award  
Recognition for excellent PhD thesis: 10,000 FIM
- June 7, 1989 Infantry Foundation Medal, Karelian Jaeger Battalion

**RECENT RESEARCH GRANTS etc.**

Prof. Kukkonen has been a project leader in several national and international projects/functions

- The total sum of different grants for prof. Kukkonen since 1996 is 9 milj.€

Year; Source; Project (for years); Amount

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2022; Saastamoinen Foundation, OLVI Foundation and Wihuri Foundation; Continuing the research programme on sustainable use of the aquatic environment as an accelerator of prosperity and well-being. (2022-2025); 1 950 000 € (Kukkonen is the director research program and was involved in the writing of the proposal. The proposal was submitted by the dean of the faculty).

2022; TFK 2022, Team Finland Knowledge programme; 78/116/2022 Development of multidisciplinary education in circular economy (2022-2023); 62 549 €.

2014; Academy of Finland; Multiple lines of evidence in assessing ecotoxicological and human health risks of mine effluents and public perception (2014-2018); 405,486 EUR.

2013; Academy of Finland; Environmental impact analysis, and sustainability - efficiency based criteria for solar energy projects in Northern Chile (2013-2016); 277918 EUR.

2011; TEKES; A quick and cost efficient method for analysing environmentally hazardous chemicals in effluents (2011-2013); 97,600 EUR

2011; Academy of Finland; Coordination of Finnish Graduate School for Environmental Science and Technology (2012-2015); 149,200 EUR

2010; TEKES; Developing environmental risk assessment of metal mining areas. (GTK, Kuopio as coordinator) (2010-2012); 59,687 EUR

2009; Nordic Council of Ministers; The NKG environmental nano-project (2009-2011); 180,000 DKK

2009; Academy of Finland; Coordination of Finnish Graduate School for Environmental Science and Technology (2010-2013); 249,400 EUR

2008; European Union (ESR); Ympäristöriskinarviointin koulutuksen huippuyksikön kehittäminen Itä-Suomeen. (2008-2010); 198,600 EUR.

2008; University of Eastern Finland; Centre of Expertise in Biology of Environmental Stress and Risk Assessment (2008-2010); 370,000 EUR

2008; European Union (Erasmus Mundus); LEANES- Linking European and Asian academic networks in the field of Environmental Sciences (2009-2010); 57,746 EUR

2007; University of Joensuu; Centre of Expertise in Adaptation of Organisms to Multiple Environmental Stresses. (2007-2009); 280,000 EUR

2007; Academy of Finland; Bioavailability of cyanotoxins - Are lake sediments storage and source? (2007-2008); 9,960 EUR

2006; European Union (Marie Curie), Cause-effect relationship of key pollutants to the European rivers biodiversity (2006-2010); 224,706 EUR

2006; Academy of Finland; Coordination of Finnish Graduate School for Environmental Science and Technology (2007-2009); 164,000 EUR

2006; NordForsk, start up funding to plan "Nordic Environmental Science Research Academy" network for Nordic graduate schools (2006); 99.000 NOK

2005; Academy of Finland, Ecotoxicology of natural organic material (NOM) in aquatic systems: Characterization and effects on contaminants and organisms (2005-2010); 1,340,000 EUR (includes Kukkonen's salary as academy professor)

2004; European Union, Integrated Project: Models for assessing and forecasting the impact of environmental key pollutants on marine and freshwater ecosystems and biodiversity (2005-2009); 468,960 EUR

2004; Academy of Finland; Coordination of Finnish Graduate School for Environmental Science and Technology (2005-2006); 93,000 EUR

2004; Academy of Finland; Xenobiotic induced disorders in early life stages of teleost fish - Estimating critical body burdens at environmentally relevant temperatures (2004-2007); 153,000 EUR

2004; Academy of Finland; Grant for LC-MSMS instrument (2004); 232,500 EUR

2004; Academy of Finland; Bioaccumulation and energy costs of biotransformation processes affected

by xenobiotics and dissolved organic matter in aquatic organisms (2004-2005); 8,810 EUR  
2003; Academy of Finland; Coordination of Finnish Graduate School for Environmental Science and Technology (2004); 42,240 EUR  
2003; Academy of Finland; Abiotic factors and chemical mixtures in environment - adding environmental realism to toxicity testing (2004-2007); 405,960 EUR  
2003; Academy of Finland; Bioavailability and possible direct effects of dissolved organic material (DOM) on aquatic organisms (2003-2004); 112,270 EUR  
2002; Maj and Tor Nessling Foundation; To organize 6th Finnish Conference of Environmental Sciences (2003); 4,650 EUR  
2002; Maj and Tor Nessling Foundation; Effects of UV-radiation and water quality on the development of frogs (2003); 15,259 EUR  
2001; NordTest; Transport and fate of surfactants in the aquatic environment (2002); 15,900 EUR  
2001; European Union; Evaluation of availability to biota for organic compounds ubiquitous in soils and sediments (as a partner, 2001-2005); 276,950 EUR  
2001; Maj and Tor Nessling Foundation; Effects of UV-radiation and water quality on the development of frogs (2002); 17,228 EUR  
2000; NordTest; Distribution, degradation and toxicity of pesticides at environmentally realistic temperatures (2001); 88,000 FIM  
2000; Academy of Finland; Bioavailability and effects of halogenated sediment-bound compounds on aquatic organisms (2001-2003); 1,583,100 FIM  
2000; National Research Council (USA); Effects of the quality of sediment organic material on the bioavailability of neutral organic compounds (2000-2001); 47,500 USD  
2000; Technology Development Centre (TEKES), Finnish Forest Industries Federation, USF Aquaflow; Optimising the effluent treatment plant of a pulp mill to remove the potential endocrine disruptors from the effluent (2000-2001); 299,000 FIM  
2000; Academy of Finland; Effects of the quality of sediment organic material on the bioavailability of neutral organic compounds (2000-2001); 614,300 FIM  
1999; Technology Development Centre (TEKES), StoraEnso Pulp, USF Aquaflow; Optimising the effluent treatment plant of a pulp mill to remove the potential endocrine disruptors from the effluent (1999-2000); 322,500 FIM  
1999; Academy of Finland; Environmental fate and bioavailability of humus and xenobiotics together and separately: Use of carbon-14 labelled humus in experiments (1999-2000); 384,300 FIM  
1998; Academy of Finland; Direct and indirect effects of UV radiation and humus on aquatic organisms and environmental fate of xenobiotics. (1999-2001); 1,350,000 FIM  
1998; Maj and Tor Nessling Foundation; Bioaccumulation of Sediment Bound Methylmercury in Aquatic Environment (1999); 131,416 FIM  
1998; NorFA; To organize a graduate course "Aquatic Ecotoxicology of Boreal Lakes. (1999); 272,000 NOK  
1998; Enso Ltd. and Enocell Ltd; Ecotoxicological effects of pulp mill effluents (1998-1999); 80,000 FIM  
1998; UPM-Kymmene Ltd.; Estimation of ecotoxicological risk caused by contaminated sediments from old saw mill area (1998); 25,000 FIM  
1997; Maj and Tor Nessling Foundation; Bioaccumulation of sediment bound methylmercury in aquatic environment (1998); 118,712 FIM  
1996; Academy of Finland; Ecotoxicological effects of contaminated sediments on river ecosystem (1997-1999); 706,000 FIM  
1996; Academy of Finland; Ecotoxicological importance of humus in aquatic systems (1998); 245,700 FIM  
1996; Maj and Tor Nessling Foundation; Bioaccumulation of sediment bound methylmercury in aquatic environment (1997); 115,392 FIM  
1996; European Union; Microbenthic Communities in European Rivers Used to Assess Effects of Land-Derived Toxicants (as a partner 1996-1999); 135,000 ECU

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#### KNOWLEDGE OF LANGUAGES:

Finnish: First language

English: Second language

Swedish: Third language (certificate March 26, 1986, "good spoken and written Swedish")  
German: Forth language

### **SOCIETY MEMBERSHIPS:**

American Society for Testing and Materials  
Finnish Society for Environmental Sciences  
Finnish Toxicology Society  
Society of Environmental Toxicology and Chemistry

### **Scientific and societal impact of research**

Scientific and societal impact of research

#### a) Career record of accomplishment

I have strong experience in coordinating and leading a research, as well as in planning research, executing and reporting research. I have been awarded several national and international research grants from European Union, Academy of Finland, TEKES and different private foundations.

My publication record is strong as shown below:

From Web of Science on April 6, 2021, for prof. Kukkonen:	
Number of publications	196
h-index	42
Sum of times cited	5609

#### b) Scientific communication, science popularization and public outreach (some examples, mostly in Finnish)

25.10.2024. Tiedeykkönen (Science program). Interview by YLE radio (national broadcasting company) about micro and nano plastics. About 25 min. interview. Podcast: <https://areena.yle.fi/podcastit/1-71710835> (in Finnish).

27.9.2022. Interview by newspaper Helsingin Sanomat about accumulation of microplastics in food webs.

15.9.2022. Interview by YLE (YLE, national broadcasting company) about accumulation of microplastics in food webs.

12.8.2022. Interview by newspaper Iltalehti about quality of drinking water and rainwater in Finland.

8.12.2020. Interview by YLE Savo (Regional office of YLE, national broadcasting company) about potential environmental effects of chemicals in cleaning products.

11.9.2020 Interview to newspaper Savon Sanomat about interdisciplinary water research at UEF.

4.9.2020 UEF Cafe Smart - tiedekahvila. Streamed live discussion about water research and microplastics in water. Audience was able to make question during the broadcasting. In Finnish [https://www.youtube.com/watch?v=OIE9nGPj\\_hs](https://www.youtube.com/watch?v=OIE9nGPj_hs) (logo in the beginning, broadcasting starts at 4:08 min).

6.7.2020 Interview by YLE radio (YLE Suomi, national broadcasting company) about microplastics and role of microbes in degradation of plastics.

14.8.2019. As part of the international Jyväskylä summer school, open lecture for general public on the sources and impacts of microplastics in the environment.

28.6.2018. Interview to newspaper Keski-Suomalainen about plastics.

27.3.2018. Presentation "Uusia menetelmiä fosforin ja metallien talteenottoon ja kierrätykseen". Also panel member for the final discussion in the seminar "Kiertotalouden merkitys nyt ja tulevaisuudessa". Saarijärvi, Tarvaala. Pohjoisen Keski-Suomen oppimiskeskus POKE.

11.10.2016. Interview by newspaper Saarijärveläinen: Kemikaalit ympärillämme.

28.9.2016. Interview by newspaper Koillissanomat: Jätevedenpuhdistamo päästää lääkkeitä läpi - Professori rauhoittelee: "Koillismaan ja koko Suomen etuna hyvin rakennettu infra"

28.9.2016. Presentation "Muovit, hormonit ja muut ihmisjätteet vesistöissämme". Ikääntyvien yliopisto. Jyväskylä.

27.3. 2014. Presentation "Vesistöjen tila Suomessa". Vesitalouspäivät. Saarijärvi, Tarvaala. Pohjoisen Keski-Suomen oppimiskeskus POKE.

24.10.2013. Presentation "Vesistöjen tila Suomessa nyt ja tulevaisuudessa". Luonto- ja ympäristöalan ajankohtaiset asiat -seminaari. Jyväskylä. Helsingin yliopisto, Ruralia-instituutti ja Pohjoisen Keski-Suomen oppimiskeskus POKE.

19.7.2011. Interview by YLE radio (national broadcasting company) about sun blockers and their potential environmental effects.