

## Invitation

# Risk assessment seminar: expert knowledge elicitation and advances in health risk modeling and analysis

October 21-23, 2009, 09.00-16.00  
Auditorium Kalevi, Evira, Mustialankatu 3, 00790 Helsinki

- How can expert knowledge be quantified?
- What are quantitative and qualitative risk assessment?
- What are the roles of science, risk assessment and decision making in improving risk management?

The Risk Assessment Unit at Evira (Finnish Food Safety Authority) has the honour to present a seminar on scientific risk assessment and its methodology by two distinguished and renowned speakers, professor Anthony O'Hagan (UK) and professor Anthony Cox (US).

This free seminar is intended for researchers, risk managers and decision makers in government organizations, research institutes and universities working in the field of food safety and risk assessment.

**Anthony O'Hagan** is professor of statistics at the University of Sheffield. His active research has been particularly in theory and applications of bayesian statistics, with applications in e.g. environmental statistics, asset management and health economics. He has made important contributions in the area of expert elicitation and quantifying uncertainty in complex mechanistic models. He is also an author of the book "*Uncertain Judgements: Eliciting Experts' Probabilities*". Currently he is part-time professorial consultant (dept of probability and statistics / Sheffield), principal investigator (Managing Uncertainty in Complex Models) and industrial fellow (Centre for Research in Statistical Methodology / Warwick). He is also involved in ongoing project (BAMRA) in improving the methods to quantify uncertainty in Microbial Risk Assessment models.

**Louis Anthony Cox** is President of Cox Associates (independent research and consulting company), Clinical Professor of Preventive Medicine and Biometrics at the University of Colorado Health Sciences Center and Honorary Full Professor of Mathematics at the University of Colorado at Denver, where he has taught courses in Bayesian computational statistics, causal analysis, and decision analysis. He is the world's first Ph.D. in risk analysis (MIT, 1986) and has published extensively on risk analysis. He is a lifetime Fellow of the Society for Risk Analysis and is a member of the Editorial Board of *Risk Analysis: An International Journal*. He is also the author of the books "*Risk Analysis: Foundations, Models and Methods*" and "*Risk Analysis of Complex and Uncertain Systems*"

*We wish you welcome to the seminar!*

Registration deadline 2.10.2009. No registration fee for the seminar. Coffee included, lunches and dinner not inclusive. Please book your accommodation and travel arrangements at your cost. Note: limited number of participants. Accepted participants will be notified in advance. Registrations:

[mirva.osala@evira.fi](mailto:mirva.osala@evira.fi)

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## SEMINAR PROGRAM

### Program Oct 21:

Chair: Ph.D. Adjunct Prof Jukka Ranta, risk assessment unit, Evira

- 08:30 Coffee
- 08.50 Opening of the seminar: Deputy Director General Jorma Hirn, Evira
- 09.00 Prof Anthony O'Hagan  
Expert knowledge elicitation: basic elicitation theory and methods with practical exercise
- 12.00 Lunch
- 13.00 Prof Anthony O'Hagan  
Group elicitation, multivariate and more advanced elicitation of expert knowledge
- 14:00 Coffee
- 16.00 Closing of the seminar
- 17.00 Dinner in Helsinki

### Program Oct 22:

Chair: Ph.D., DVM Pirkko Tuominen, Risk Assessment Unit, Evira

- 08:30 Coffee
- 08.50 Opening of the seminar
- 09.00 Prof Anthony Cox  
Principles of health risk modeling and risk analysis
- 12.00 Lunch Buffet in Evira
- 13.00 Prof Anthony Cox  
Causality, research and decision-making for microbial and antimicrobial risk analysis
- 14:00 Coffee
- 16.00 Closing of the seminar

### Program Oct 23:

Chair: Prof. Kirsti Savela, Head of Department, Risk Assessment Unit, Evira

- 08:30 Coffee
- 08.50 Opening of the seminar
- 09.00 Prof Anthony Cox  
Advances in methods of qualitative and quantitative risk analysis
- 12.00 Lunch
- 13.00 Prof Anthony Cox  
Applying risk analysis to improve food safety and resource allocation
- 14:00 Coffee
- 16.00 Closing of the seminar