

International Workshop Preparing for Social Responsibility.

Teaching ethics, peace and sustainability to students in science and engineering.

Delft, October 13-15, 2010

Programme, version July 1, 2010.

Wednesday, October 13

9:30: Registration, welcome coffee

10:00: Opening

Henk Zandvoort, chairman of organising committee, associate professor of ethics and technology at Delft University of Technology.

“Why do we do this?”

10.15: Key note lecture

Jeroen van den Hoven, scientific director of the 3TU.Centre for Ethics and Technology and professor of ethics at Delft University of Technology.

Topic: Value sensitive design and the social responsibility of engineers.

10.45: Key note lecture

Bengt Gustafsson, professor theoretical astrophysics at Uppsala University and chair of the Committee on Freedom and Responsibility in the conduct of Science (CFRS) of the International Council for Scientific Unions (ICSU).

“What does social responsibility imply for the communities of scientists and engineers?”

11:15: Break, coffee

11.30: Key note lecture

Stephanie J. Bird, Ph.D., co-editor-in-chief of *Science and Engineering Ethics* and independent consultant and speaker on professional ethics, research ethics, engineering ethics, and neuroethics.

“What should universities do to prepare their students (of science and engineering) for social responsibility?”

12.00: Round of presentations in which the workshop participants introduce themselves to each other.

12.45-14.00: Lunch

14:00: Examples and cases

4 presentations 15' + 15'.

1. Jana Timm, Universitaet Lueneburg, Germany.
"Teaching sustainability and responsibility to all first year bachelor students at Leuphana University Lueneburg - Experiences and evaluation after the third year."
2. Prof. Dr-Ing. Manfred Hampe, Mechanical engineering, and Prof. Nordmann, Philosophy, Darmstadt University of Technology, Germany.
"Teaching Philosophy for Students of Mechanical Engineering."
3. Diana Stentoft Rees and dr Xiangyun Du, University of Aalborg, Denmark.
"Problem based learning and preparing students for social responsibility."
4. Prof. dr Regine Kollek, University of Hamburg, Germany.
"Lessons to be learnt from the introduction of a bachelor course on science, society and responsibility at Hamburg University."

16.00: Break, tea

16:15: Working groups session 1. 90'.

Each participant in the workshop will also participate in one of the working groups. There will be about 5 participants in each working group, and each working group will have one or more coordinators/moderators. The purpose of the working groups is to provide an opportunity to exchange experiences and ideas, and to work on a specific topic. Before the beginning of the workshop, the workshop organisers will have enrolled the participants in one of the working groups, on the basis of participants' stated preferences from the list of available working groups. The following working groups are envisioned [moderator between brackets]:

1. The use of role plays in teaching for social responsibility [moderator to be determined].
2. Designing a lecture or an element of a lecture on social responsibility [Spitzer].
3. Designing a course aimed at preparing for social responsibility [Hampe].
4. Designing case-studies aimed at preparing for social responsibility [Boersen].
5. Designing a curriculum that prepares students for social responsibility; designing those elements of a curriculum that jointly lead to the goal [Zandvoort].
6. How to establish teaching for social responsibility at the university level? [Deneke]
7. Networking and cross-teaching with people from different locations. [Kalinowski]
8. Struggling for sustainability: learning by playing. How to prepare and run a role play of a stakeholder dialogue on a case from the energy economy? [Student group SNEEP]
9. History of the Engineer - What roles did engineers take? Which visions did they have? [Student project Blue engineering]

17:45: Drinks

18:30: Working groups are encouraged to make their own dinner arrangement so as to learn to know each other and to socialise.

Thursday, October 14

9.00: *Parallel sessions on examples, cases, and analyses*
3 + 3 presentations 15' + 15'

Session A.

1. Dr André Béraud, INSA Lyon and ECEPIE (Association for Equal Opportunities for Women in Engineering Studies and Careers in Europe).
"Perception of French students in engineering about the ethics of their profession and implications for engineering education."
2. Prof. dr Franz Fujara and dr Wolfgang Liebert, Interdisciplinary Study Programmes-Group, Technical University Darmstadt, Germany.
"Interdisciplinary study foci of Technical University Darmstadt."
3. Dr Esat Alpay, Imperial College, UK.
"Student-inspired activities for the teaching and learning of engineering ethics at Imperial College."

Session B.

4. Elisabeth Reitmayr and Jonas Gebauer, Muenchen, Social responsibility student group SNEEP, Germany.
"Struggling for Sustainability - learning by playing A contribution to convey sustainable thinking and acting by sneep, student network for ethics in economics and practice."
5. Ir Neelke Doorn, Delft University of Technology, Netherlands.
"Using and developing role plays in teaching aimed at preparing for social responsibility."
6. André Baier, Student of Environment Technologies, and Maximilian Hoffie, Student of Philosophy, Student project "Blue Engineering", Technical University of Berlin, Germany.
"Blue Engineering - a Student project at TU Berlin to promote socio-ecological responsibility in the engineering sciences."

10:30-11.00: *Break, coffee*

11:00: *Parallel sessions on examples, cases, and analyses continued*
3 + 3 presentations 15' + 15'

Session A

1. Dr ir Behnam Taebi, Delft University of Technology, Netherlands.
"Introduction of minors in the DUT teaching programmes and preparing for social responsibility."
2. Mirjam Glessner, University of Kiel, Germany.
"Prepared for social responsibility? Report from a Ph.D. retreat at the University of Kiel."
3. Dr ir Anke van Gorp, Hogeschool Utrecht, Netherlands.
"Challenges of teaching courses for preparing students for social responsibility at a university college."

Session B

4. Cindy Vestergaard MA, Danish Institute for International studies, Denmark.
"The nuclear, chemical and biological weapons treaties and their impact on teaching for social responsibility."
5. Dr Iris Hunger, Carl Friedrich von Weizsäcker Research Centre for Science and Peace Research, University of Hamburg, Germany.
"Teaching Peace and Security Issues to Life Scientists."
6. Dr Christelle Didier, Université Catholique de Lille, France.
"The French higher education system's response to the call for a preparation for social responsibility."

12:30: *Lunch*

13:30: *Poster session.*

14:00: *Role play with the workshop participants as players.*

Moderator: Prof. dr. Marie Isabelle Chevrier, The University of Texas Dallas, USA.

The topic of the role play will be in the area of International negotiations and conflict resolution regarding Atomic, Biological and Chemical weapons and proliferation issues.

15:30 *Break, tea*

16:00: *Working groups session 2, 120'.*

The working groups will continue their work on their topic, and will draft results/conclusions to be presented on day 3.

18:00-....: *Reception and meal (Indonesian buffet).*

Location: TPM building Jaffalaan 5.

Friday, October 15

9.00: *Working group session 3.*

Plenary presentation + discussion of results of Working groups.
8' presentation + 4' discussion per Working group.

10.45: *Break, coffee*

11:00: *The role of external actors/partners*

1. Klavs Birkholm MA, The Danish Ethical Council, Denmark.
"The role of ethical councils in teaching ethics to science and engineering students."
2. Eddie Conlon, Assistant Head Department of Engineering Science and General Studies, Faculty of Engineering Dublin Institute of Technology, Ireland.
"The role of professional organisations in Ireland (and the UK) regarding preparing students in engineering for social responsibility."
3. Pekka Pellinen, The Finnish Association of Graduate Engineers TEK, Ethics Committee, Finland.
"Efforts of a professional association of engineers to introduce teaching elements into the universities to prepare students for social responsibility."
4. Prof. dr. Claus Montonen, Professor for theoretical physics at the University of Helsinki, Finland.
"How can university teachers cooperate with professional organisations of scientists and engineers to promote the teaching for social responsibility?"

13.00: *Lunch*

14.00 *Wrapping up and planning of follow up actions*

Conclusions and commitments.

Moderators: dr Michael Deneke and dr Wolfgang Liebert, Technical University Darmstadt

Future planning of an application for COST-subsidy (COST = European Cooperation in Science and Technology)

Dr Tom Boersen, University of Aalborg.

Future planning of a special issue of *Science and Engineering Ethics*

Future planning of materials to be posted on Workshop website

15.30 Closing