

Introduction to Environmental Health and Safety – Summer `07

环境健康与安全导论

EHS: “Environment, Health & Safety”

- rarely used
- i.e. in Germany

HSE: “Health & Safety Executive”

- legal term
- used globally in English-speaking countries

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Lecture: “Environmental Health & Safety”

Approach:

- *Situation of and - direct as well as indirect - impact on biosphere*
 - Mankind is part of nature, “environment”.
- ➔ Impact on human health is included.

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Lecture 1a

Topic: Introduction to Structure of Lecture, Tasks

Contact details MJG:

Room: 505

Phone: +86-24-8972-3608

E-mail: martin-gehring@web.de

(Do not use Chinese characters!)

Consultation: WED 13:00 – 16:00

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Time, room

lecture:

- weeks 2 to 11 of term = 18 x 2 hours = 36 hours
- on Mondays, 13:30 – 15:20
- on Thursdays, 08:00 – 09:50
- room 1A 122

consultation:

- on Wednesdays, 13:00 – 16:00, room 505

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Structure of lecture, tasks

→ „Integrated lecture“

Consists of:

- Introductory lectures by MJG
- Presentations by students
- Papers in English by students, 10 – 15 pages, deadline 2007-06-30
- Discussions

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Structure of single lecture

Consists of:

1. 10 min presentation and discussion of relevant news
2. 20 – 30 min 1st lecture or presentation,
10 – 20 min for partial interpretation
3. 20 – 30 min 2nd lecture or presentation,
10 – 20 min for partial interpretation
4. 10 min discussion, questions

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1. Presentation and discussion of relevant news

International and national news related to the topic of the lecture and presentations

- different (!) news to be collected by each student
- to be presented in English
- to be discussed in English
- ▶ file, print or copy, reference, translation to be provided to MJG

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News - Example I

„China's climate change office has denied the country plans to set up an emissions exchange [...]“

(Planet Ark World Environment News, issued 12.03.2007, URL:
<http://www.planetark.com/avantgo/dailynewsstory.cfm?newsid=40780>, accessed 12.03.2007)

„The results showed large, short-lived spikes in global aerosols caused by major volcanic eruptions in 1982 and 1991 but a gradual decline since 1990. By 2005 global aerosols had dropped [...] 20 per cent from relatively stable levels from 1986 to 1991. “

(CBC News, issued 16.03.2007, URL:
<http://www.cbc.ca/technology/story/2007/03/16/science-aerosol.html>, accessed 18.03.2007)

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News – Example II

„Too many calories and too little exercise are undeniably the major factors contributing to the obesity epidemic, but several recent animal studies suggest that environmental exposure to widely used chemicals may also help make people fat. “

(Washington Post, issued 12.03.2007, URL: <http://www.washingtonpost.com/wp-dyn/content/article/2007/03/11/AR2007031100918.html>, accessed 15.03.2007)

„China has abandoned annual energy saving targets because not all its efforts to boost efficiency will bear fruit immediately [...].“

(Planet Ark World Environment News, issued 08.03.2007, URL: <http://www.planetark.com/dailynewsstory.cfm/newsid/40731/story.htm>, accessed 08.03.2007)

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News - Questions to be discussed

- Meaning?
- Related topics of EHS lecture?
or
How related to EHS?
- Local, regional, national, international importance?
- Conclusions?

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2./3. Presentation (valid also for paper)

- Overview of topic
 - Most important information
 - Basic understanding
 - Multidisciplinary approach
 - Recent developments
 - Source of information like laws, agreements, standards, organisations... (national, international)
- ▶ ppt to be provided to MJG, 1 page handout to everybody

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2./3. Presentation (relates also to paper)

- What substance etc. are you talking about?
- Where does it rise from?
- What exactly is the problem?
- What is the importance of the problem/s on a local, regional, national, global scale?
- What is/has already being/been done?
- What conclusions do you draw?
- What do you suggest to do?

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Schedule

date (mm/dd/yy)	day	week of term	lectures MJG	date (mm/dd/yy)	day	week of term	students` presentations
03/19/07	1	2	1a,b	04/19/07	10	6	10a,b
03/22/07	2	2	2a,b	04/23/07	11	7	11a,b
03/26/07	3	3	3a,b	04/26/07	12	7	12a,b
03/29/07	4	3	4a,b	05/07/07	13	9	13a,b
04/02/07	5	4	5a,b	05/10/07	14	9	14a,b
04/05/07	6	4	6a,b	05/14/07	15	10	15a,b
04/09/07	7	5	7a,b	05/17/07	16	10	16a,b
04/12/07	8	5	8a,b	05/21/07	17	11	17a,b
04/16/07	9	6	9a,b	05/24/07	18	11	18a,b

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Students` Topics

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no.	topic	MJG	student
1	Ozone, smog	2a	10a
2	Methanal (HCHO)	2b	10b
3	Sand, dust, soot, nanoparticles	3a	11a
4	Asbestos	3b	11b
5	Solvents, BTEX	4a	12a
6	Palladium (Pd), Platin (Pt)	5a	13a
7	Mercury (Hg), Lead (Pb)	5b	13b
8	Surfactants	6a	14a
9	Phthalates	6b	14b
10	Pharmaceuticals and personal care products (PPCP): human pharmaceuticals (HP), veterinary pharmaceuticals (VP), fragrances	7a	15a
11	Siloxanes	7b	15b
12	Perfluorinated compounds	8a	16a
13	Plant protection products (PPP), DDT, Persistent Organic Pollutants (POPs), Atrazin	8b	16b
14	Laws, regulations, administrations, institutions, national surveys, monitoring programmes in or relevant for China published or gone into effect since 2006-01-01	none	17a
15	Environmental situation in China - Review	none	17b

学生需要研究的题目

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序号	题目	MJG	学生
1	臭氧、烟尘	2a	10a
2	甲醛 (HCHO)	2b	10b
3	沙尘、灰尘、黑烟、纳米颗粒	3a	11a
4	石棉	3b	11b
5	溶剂, BTEX	4a	12a
6	钯 (Pd), 铂 (Pt)	5a	13a
7	汞 (Hg), 铅 (Pb)	5b	13b
8	表面活性剂	6a	14a
9	酞酸盐	6b	14b
10	药物和个人护理产品: 人体药物(HP), 兽药 (VP)、香料	7a	15a
11	硅氧烷	7b	15b
12	全氟化合物	8a	16a
13	植物保护产品 (PPPs), DDT, 持续有机污染 (POPs)、阿托拉辛	8b	16b
14	从2006年1月1日开始发布或将要发布的相关法律、规定、管理制度、全国范围的调查活动、监督计划等	无	17a
15	中国环境状况回顾	无	17b

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Presentation

- Cover slide: Topic, name, lecture etc.
- Table of Contents
- Introduction
- Main part
- Summary and Conclusions
- List of References
- ▶ ppt to be provided to MJG



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Paper

- Cover page
 - Table of Contents
 - Brief Introduction
 - Basic Chapters (overview of science, experiments...)
 - Main Part (results, discussion)
 - Summary
 - List of References
 - Annexes
- ▶ file/print to be provided to MJG, deadline 2007-06-30

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References

- Each single citation of the work of other people, no matter if word by word or by content, has to be proven by a full and correct reference note.
- One of the national or international standards has to be used, e.g. Harvard, DIN etc.
- The „copy and paste-approach“ will not be accepted. Plagiarism will lead to exclusion from / failure in exam.
- Be cautious & thorough if using internet sources.

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References – Example 1

In the text: (Currie, 1997)

In the list of references:

Currie (1997) Currie, L. A. (1997): Detection: International update, and some emerging di-lemmas involving calibration, the blank, and multiple detection decisions. *Chemometrics and Intelligent Laboratory Systems*, **37**, 151 – 181.



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References – Example 2

In the text: [1]

In the list of references:

[1] Currie, L. A. (1997): Detection: International update, and some emerging di-lemmas involving calibration, the blank, and multiple detection decisions. *Chemometrics and Intelligent Laboratory Systems*, **37**, 151 – 181.



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References – Example 3

In the text: (2003/53/EC)

In the list of references:

2003/53/EC Directive 2003/53/EC of the European Parliament and of the Council of 18 June 2003 amending for the 26th time Council Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations (nonylphenol, nonylphenol ethoxylate and cement). *Official Journal of the European Communities*, **L 178**, 17.07.2003, 24 – 27.

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References – Example 4

In the text: (SRU, 2003)

In the list of references:

SRU (2003) Sachverständigenrat für Umweltfragen (SRU) (2003): Stellungnahme zu REACH. URL: http://www.umweltrat.de/03stellung/downlo03/stellung/Stellung_Reach_Juli2003.pdf, last updated July 2003, accessed 29.07.2003. (Position paper on REACH. In German)

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