

12th ALARA Workshop - Vienna

Thomas Geringer – Seibersdorf Laboratories

Matthias Blaickner – AIT Austrian Institute of Technology

„Training of Emergency Responders“

An innovative approach of testing radiation protection skills in catastrophe management

„A step by step training for Emergency Responders“

Goals to achieve:

- Same level of knowledge
- Same technical terms
- Same (or similar) instruments

„The high Quality Aims of Education“

- ***STANDARDIZATION OF THE EDUCATION***
- usage of the same technical terms
- cooperation between the members of different relief organizations
- the same level of knowledge about the topic

“Communication as the major tool of knowledge transfer“

- Knowledge transfer needs a base of Unification
- This unification includes Education, Evaluation and Reinforcement (e.g. the Seibersdorf Laboratories Awards)
- the radiation protection academy functions as a platform for a harmonized education

“Motivation of the Students“

- radioactivity, radiation and radiation protection has to become a more touchable topic
- the aura of mysticism has to be taken away
- Science has to become less untouchable and more understandable for the emergency responder as well as for the subject in danger

„The Seibersdorf Laboratories awards as an example of a competitive knowledge transfer and testing“

- Seibersdorf research started with their radiation protection award as early as 1962
- 50 000 candidates have been awarded since then
- Most candidates are members of the Austrian Army or other security forces

- Motivation of the students
- Current control of achievement and knowledge
- Retraining in regular periods
- Reevaluation by a subtly chosen group of specialists
- Knowledge exchange between members of different organizations and different countries

„The Seibersdorf Award in more detail“

- radiation protection training award is offered in three stages
- the bronze award; the silver award; and the golden award
- a candidate passed the award, gets an insignia and a certificate

- A more detailed overview about the clientel attending the Seibersdorf Laboratories award program:
- Austrian army
- Security forces
 - Red Cross Austria
 - Fire Department
 - Police Department

Seibersdorf's Bronze award

Guarantees that the holder is competent in both theoretical and practical aspects of an radiological accident

Procedure

- 4 practical exercises
- Practical tests
- Theoretical tests

Practical requirements

- Detection of radioactive sources
- Measuring of radiation
- Taking of environmental samples
- Principles of personal monitoring

Theoretical requirements

- Principles of radioactivity
- Use of ionising radiation
- Principles of dosimetry
- Regulations for radiation protection
- Regulations for transportation of dangerous goods

Silver award

Requires additional competence in emergency management

Golden award

- 5 years of professional experiences
- Presenting a written thesis
- Personal competence in emergency planning

Purpose

Harmonized high level education of all Austrian security forces

SEIBERSDORF
LABORATORIES

