



RN Workshop March 30th – 31th, April 1st 2010

How to stay safe and healthy in a 'green' studio: concerns and solutions while caring for our cultural heritage

Conservators/restorers employ hazardous materials and processes unlike those in any other industry. Instead of modifying precautions designed for common situations, this course is designed to provide sufficient training about safety regulations, chemicals, toxicology, and air pollutants for participants to be able to make well-informed choices about ventilation systems, protective equipment and precautionary strategies. After 30 years of training and architectural planning, Monona Rossol believes this is simpler and a lot more fun than it sounds.

The workshop methodology

Lectures, illustrations, and case studies will be combined with a format that encourages dialog.

Subjects covered

- The regulatory framework: ARBO, Global Harmonization, and others
- Air pollutants: gases, vapors, fumes, dusts, mists, smoke and nanoparticles
- Basic toxicology
- Label terms: e.g., trade secrets, natural, biodegradable, VOCs (Volatile Organic Compounds), green.
- Air-quality standards: e.g., National Statutory limits, ACGIH TLVs, German MAKs.
- Interpreting MSDS (Material Safety Data Sheet) information for selected substances and products.
- Respirators and protective equipment against chemical and biological hazards
- Ventilation systems, e.g., general dilution, local exhaust, air purifiers, and dust collection.
- Chemistry as applied to storage of chemicals and collections.
- Case studies of precautions for DDT and other pesticides in collections

Tutors

- Monona Rossol, **M.S., M.F.A.** Industrial Hygienist, Arts, Crafts & Theater Safety, Inc. and Safety Officer, <http://www.artsraftstheatersafety.org/bio.html>
- Frank Brekelmans, lecturer Arbo-regulations, www.fbadadvies.nl
- Nico Hijman, furniture conservator, case study
- Erich Jelen, Dipl.-Ingenieur, Fraunhofer-Institut für Umwelt-, Sicherheits- und Energietechnik, Oberhausen, case study

Organisation

Restauratoren Nederland

T 070 331 55 44

E info@restauratoren.nl

Location

Reinwardt Academie, Dapperstraat 315, 1093 BS Amsterdam

www.reinwardtacademie.nl

Working language

English

Course fee

€95,- (members RN)

€245,- (non-members)

Registration

The course is designed for 150 participants working as conservator/restorer.

The course starts at a fundamental level.

Payment

You will receive an invoice with the written confirmation of your registration. The participation fee must be credited to our account at least four weeks before commencement of the course. If payment is not received in time, we cannot guarantee your participation. Participants will be sent a reader and further details on the course.

The price includes materials, coffee, tea and lunch. Accommodation is not included in the course fee.

Proof of participation

At the end of the course, proof of participation is issued providing that a minimum of 80% of the course is attended.

Registration

sent the registration form to info@restauratoren.nl

Candidates' applications must be received by February 25th 2010

Program**DAY 1, March 30th**

Monona Rossol
Frank Brekelmans

9:00 - 9:30	Coffee/Tea
9:30 - 9:40	Introduction Elizabet Nijhoff Asser
9:40 - 10:00	Opening remarks, objectives, & overview
10:00 - 11:00	ARBO: summary of applicable regulations Frank Brekelmans
11:00 - 11:15	Coffee/Tea
11:15 - 12:30	Effects of the Precautionary Principle, REACH & Global Harmonization Understanding air pollutants Nanoparticles
12:30 - 13:30	Lunch
13:30 - 15:00	What every worker should know about toxicology How materials enter the body--Routes of Entry 1. inhalation 2. skin contact 3. ingestion 4. injection Toxicological concepts
15:00 - 15:15	Coffee/tea
15:15 - 16:30	Identifying hazards from select MSDS (Material Safety Data Sheets) and label terminology
16:30	Drinks at Reinwardt Academy
18:00	Dinner at Chinese Restaurant (at own costs)

Program**DAY 2 , March 31th**

Monona Rossol

9:00 - 9:30	Coffee/Tea
9:30 - 11:00	Air Quality Standards/laws and how to use them to select safest materials. Statutory limits values, ACGIH TLVs, and MAK standards. Comparison studies using DDT, toluene, other museum chemicals as cases.
11:00 - 11:15	Coffee/Tea
11:15 - 12:30	Using MSDS terminology (GHS SDS) Section 8 exposures controls/personal protection Section 9 physical and chemical properties Section 10. stability and reactivity Section 11 toxicological info
12:30 - 13:30	Lunch
13:30 - 15:00	Respiratory protection and other personal protective equipment

15:00 - 15:15	Coffee/Tea
15:15 - 16:30	Planning buildings and special ventilation system. Slides of specific systems Architectural plans Ventilation Air-purifying systems Industrial ventilation Detecting Air Contaminants Sources of Contaminants in buildings & storage areas - it's not easy being "green" Case studies/slides identifying good/bad systems

Program

DAY 3, April 1st

Monona Rossol
Nico Hijman
Erich Jelen

9:00 - 9:30	Coffee/Tea
9:30 - 11:00	Safe storage of chemicals: review of chemical properties, reactivity, etc. The chemistry/physics of the collectibles Chemistry/geology review Organic chemicals-definition and classes Forms of radiation Storing chemicals and collections based on chemical hazards
11:00 - 11:15	Coffee/Tea
11:15 - 12:30	Casestudy DDT Nico Hijman Erich Jelen
12:30 - 13:30	Lunch
13:30 - 15:00	Casestudy DDT
15:00 - 15:15	Coffee/Tea
15:15 - 16:00	Survey of other pesticides use in Museums (handout) Problem solving based on what we've learned.
16:00 - 16:30	Evaluation of the workshop