

V. WORKSHOP PROGRAMME

*European Workshop on Standards, Measurements and Testing
for the Monitoring of Water Quality :
the Contribution of Advanced Technologies,
Nancy (France), 29-31 May 1997*

Thursday 29 May 1997

Welcome by :

F. COLIN, Université Henri Poincaré, Nancy I,
Chairman, Scientific Committee of NAN.C.I.E., Nancy, (F)
and opening address by :

P. QUEVAUVILLER, European Commission, DGXII,
Brussels (BE)

Introduction to the Workshop by F. COLIN

- Aims of the Workshop
- Working method
 - identification of needs
 - identification of technical opportunities
 - matching needs and opportunities

SESSION 1

End User's view : state of the art, identification and prioritisation of needs.

State of the art of Water Quality Monitoring :

- application fields
- measurement aims
- measured parameters and considered concepts
- present performance
- main drawbacks and limitations

Identification and prioritisation of technical and regulatory needs

- classical parameters : required performance
- new concepts to consider, new parameters to be measured

Round-table A : Characterisation of clean waters

Chair : J. BENOLIEL (P)

Rapporteur : T. H. M. NOIJ (NL)

- Surface and underground natural waters
- Drinking water
- Industrial cooling and process waters

Round-table B : Characterisation of waste waters

Chair : A. KATSIRI-KOUZELI (GR)

Rapporteur : H. WACHEUX (F)

- Domestic waste-waters
- Industrial waste-waters
- Waste-water sludge

SESSION 2

Presentation of selected advanced technologies

Chair : J. GUTIERREZ (SP)

Rapporteur : D. KLOCKOW (D)

- introductory presentation : F. COLIN (F)
- optical technologies : P. SCULLY (UK)
- electrochemical sensors : P. PAYNE (UK)
- microbiological sensors : P. VASSEUR (F)
- biochemical sensors : D. CULLEN (UK)

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SESSION 3

Advanced Technologies for Classical parameters : improvement of existing Methods or Development of Alternative Techniques ?

Chair : G. FREGO (I)

Rapporteur : A. KATSIRI KOUZELI (GR)

General discussion on :

- what possibilities ?
- what adaptation problems ?
- specific advantages : autonomy, miniaturisation, performance, cost, ..

Round-table C : Global parameters

Chair : J-L CECILE (F)

Rapporteur : D. CULLEN (UK)

- pH, redox, conductivity
- suspended matter
- total organic load
- biodegradable organic matter
- toxicity
- odours

Round-table D : individual chemical species

Chair : T. H. M. NOIJ (NL)

Rapporteur : P. PAYNE (UK)

- dissolved gas (O₂, CO₂)
- dissolved solids (anions and cations)
- N species
- P species
- organic micropollutants (pesticides, BTEX, HPA, PCB, ...)
- inorganic, micropollutants (metals and metalloids)

SESSION 4

Advanced Technologies for New Parameters and Measurement Concepts

Lecturer : M. JAUZEIN (F)

Rapporteur : M. SCOTT (UK)

- chemometrics multivariate techniques : B.G.M. VANDEGINSTE (NL)
- sensor arrays
- virtual parameters
- highly specific measurement systems
- integrated data treatment

Round-table E : multivariate techniques for behavioural characterisation of waters

Chair : B.G.M. VANDEGINSTE (NL)

Rapporteur : J. RAGOT (FR)

Round-table F : highly specific techniques for individual chemical species

Chair : D. KLOCKOW (D)

Rapporteur : G. ORELLANA (SP)

SESSION 5

Round-table on the theme "Needs and Possibilities for the Application of Advanced Technologies, Establishing Priorities :

Presentation by rapporteurs of sessions 1 to 4 and chairmen of Round Tables

Conclusions regarding the SM&T Programme

P. QUEVAUVILLER, European Commission, DG XII, Brussels