

Attachments

1 Catalogue of overseas hydrology courses

2 Response forms

# Catalogue of overseas hydrology courses

## **Overseas training courses: *surface water***

<b>Course title</b>	<i>Hydrological observations</i>
<b>Organisation</b>	The University of New South Wales in cooperation with Institute of Professional Education
<b>City, country</b>	Sydney, Australia
<b>Topics covered</b>	Data collection, use of data, equipment, standardisation, data logging, transmission, electronic archives, stream gauging, data analysis and storage, network maintenance, use of HYDSIS storage software,
<b>Visits</b>	Equipment manufacturers, water resources installations, Nepean River, Woranora dam, Manlyvale laboratory, Warragamba dam
<b>Methods, approach</b>	Seminar presentations, video and slide documentation, group discussions, presentations by participants, interaction at field sites and data storage systems, individual consultation and assistance, laboratory and practical sessions, social and cultural gatherings.
<b>Duration</b>	5 weeks approx.
<b>Scheduled delivery time</b>	November / December 1997 and 1998. Can be arranged at other times also.
<b>Max. number of participants per course</b>	12 persons
<b>Admission requirements</b>	Education: BE -Civil Engineering or equivalent Experience: About 10 years in water resources planning and development, including 5 years in the areas of Hydrology and hydrological field observations
<b>Certificates</b>	Certificate of attendance
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *surface water*

<b>Course title</b>	<i>Hydrological data collection and management</i>
<b>Organisation</b>	California Department of Water Resources (CDWR)
<b>City, country</b>	Sacramento, USA.
<b>Topics covered</b>	Hydrology, hydrological data collection and management (details to be finalised)
<b>Visits</b>	Facilities, sites in the agency as required.
<b>Methods, approach</b>	Lectures, assignments, on- the-job training etc.
<b>Duration</b>	4-5 weeks
<b>Scheduled delivery time</b>	As per convenience of the agency, but sufficient lead time required.
<b>Max. number of participants per course</b>	12
<b>Admission requirements</b>	Education: BE (Civil Engineering) Experience: About 10 years in water resources including 5 years in hydrological data collection and management.
<b>Certificates</b>	Certificate of participation on successful completion.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## **Overseas training courses: *surface water***

<b>Course title</b>	<i>Hydrological data management</i>
<b>Organisation</b>	California Department of Water Resources (CDWR)
<b>City, country</b>	Sacramento, USA.
<b>Topics covered</b>	Hydrological data management (details to be finalised )
<b>Visits</b>	Facilities in CDWR as required.
<b>Methods, approach</b>	Lectures, assignments, on-the-job training.
<b>Duration</b>	4-5 weeks.
<b>Scheduled delivery time</b>	As per time available with the agency but sufficient lead time required.
<b>Max. number of participants per course</b>	12
<b>Admission requirements</b>	Education: BE (Civil Engineering) Experience: About 10 years in water resources including 5 years in hydrological observations and data management.
<b>Certificates</b>	Certificate of participation on successful completion of course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## **Overseas training courses: *surface water***

<b>Course title</b>	<i>Flood warning and management</i>
<b>Organisation</b>	Thies Environmental Services
<b>City, country</b>	Woori Yallock, Victoria, Australia.
<b>Topics covered</b>	Automatic flood warning system installation and operation, meteorological monitoring, strategy and response planning, public safety awareness programs property damage survey.
<b>Visits</b>	Sites, installations.
<b>Methods, approach</b>	On-the-job training, lectures, assignments etc.
<b>Duration</b>	6 weeks approx.
<b>Scheduled delivery time</b>	Can be scheduled any time between September and April of following year (1998 and 1999).
<b>Max. number of participants per course</b>	Information not available at present, however a few could be accommodated.
<b>Admission requirements</b>	Education: BE (Civil Engineering) Experience: About 10 years in water resources including 5 years in hydrology and flood forecasting.
<b>Certificates</b>	Certificate of participation on successful completion of course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *surface water*

<b>Course title</b>	<i>Hydrological data collection and management</i>
<b>Organisation</b>	Thiess Environmental Services
<b>City, country</b>	Woori Yallock , Victoria , Australia.
<b>Topics covered</b>	Data collection, analysis, storage, retrieval
<b>Visits</b>	As required to sites and installations, data centers.
<b>Methods, approach</b>	Lectures, assignments, on-the-job training.
<b>Duration</b>	6 weeks approx.
<b>Scheduled delivery time</b>	Can be scheduled anytime between September and April off following year, however, 4-6 months lead time is required.
<b>Max. number of participants per course</b>	12
<b>Admission requirements</b>	Education: BE (Civil Engineering). Experience: About 10 years in water resources, including 5 years in hydrological data observation and management.
<b>Certificates</b>	A certificate of participation on successful completion of the course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *surface water*

<b>Course title</b>	<i>Hydrological data collection, processing and analysis</i>
<b>Organisation</b>	Infrastructure Hydraulics Environment (IHE)
<b>City, country</b>	Delft, The Netherlands
<b>Topics covered</b>	Overview of hydrology, workshop on data screening and analysis; statistical analyses applicable to hydrological data processing, hydrometry (selection of sites, types of gauges, staff gauge, pressure transducers, bubble gauges, sensors, AWLRS:analogue,digital,electronic,stilling wells, data processing, discharge measurements covering the whole range of methods.
<b>Visits</b>	Hydrological observation sites on large and small rivers, recording water levels, automatic water management control systems, calibration of flow measuring structures, automatic data collection, transmission processing systems.
<b>Methods, approach</b>	Lectures, practice sessions, work shops, field visits, on-the- job training.
<b>Duration</b>	5 weeks.
<b>Scheduled delivery time</b>	April-May, 1997 Participation to be confirmed at least six months in advance.
<b>Max. number of participants per course</b>	20
<b>Admission requirements</b>	Education: BE (civil engineering) Experience: About 10 years overall in the water resources planning and development, including 5 years in hydrology and hydrological observations at the field level.Knowledge of computers is essential.
<b>Certificates</b>	A certificate of attendance based on successful completion of the course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *surface water*

<b>Course title</b>	<i>Hydrological observations and information systems</i>
<b>Organisation</b>	U.S. Corps of Engineers, Department of Army, Waterways Experiment Station, Lower Mississippi Valley.
<b>City, country</b>	Vicksburg, Mississippi, USA.
<b>Topics covered</b>	Hydrological data collection, analysis, transmission and storage; river forecasting; reservoir system management
<b>Visits</b>	Sites for data collection and water resources development projects
<b>Methods, approach</b>	Mostly on-the- job training in LMVD, LMK, and/or WES. Participant would be involved in actual analysis.
<b>Duration</b>	4-8 weeks
<b>Scheduled delivery time</b>	October-November, 1997 and 1998. Lead time of 4-6 months required for course preparations.
<b>Max. number of participants per course</b>	4 persons
<b>Admission requirements</b>	Education: BE (Civil Engineering) Experience: About 10 years in water resources planning including 5 years on hydrology and hydrological field level collection and analysis
<b>Certificates</b>	Information not available but a certificate of participation expected.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *surface water*

<b>Course title</b>	<i>Surface water hydrology</i>
<b>Organisation</b>	Utah State University, International Irrigation Center, in cooperation with the Utah Research Laboratory and Utah Climate Center.
<b>City, country</b>	Logan, Utah, USA.
<b>Topics covered</b>	Surface water hydrology, geographical information systems, surface runoff hydrology, hydroclimatology, hydrologic time series analysis, remote sensing, data acquisition system etc.
<b>Visits</b>	Hydrological data collection sites available.
<b>Methods, approach</b>	Lectures, seminars, exercises and practice sessions
<b>Duration</b>	4 weeks
<b>Scheduled delivery time</b>	May-June, 1998
<b>Max. number of participants per course</b>	12-15
<b>Admission requirements</b>	Education : BE(Civil Engineering) Experience: About 10 years in water resources engineering including 5 years in hydrology and hydrological field observations.
<b>Certificates</b>	Certificate of participation on successful completion of the course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *surface water*

<b>Course title</b>	<i>Surface water hydrology</i>
<b>Organisation</b>	Colorado State University, The International School for Water Resources
<b>City, country</b>	Ft. Collins, Colorado, USA.
<b>Topics covered</b>	Open curriculum. To be finalised in consultation with the Hydrology Project.
<b>Visits</b>	Information not available at present Short visits to hydrological data collection sites possible.
<b>Methods, approach</b>	Lectures, practice sessions, seminars, assignments.
<b>Duration</b>	4-6 weeks.
<b>Scheduled delivery time</b>	May-June, 1998. Four months notice required.
<b>Max. number of participants per course</b>	12-15
<b>Admission requirements</b>	Education: BE Civil Engineering Experience: About 10 years in water resources including 5 years in hydrology and hydrological data collection, analysis and storage.
<b>Certificates</b>	A certificate of participation on successful completion of course
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *surface water*

<b>Course title</b>	<i>Hydrological data collection, management and information systems</i>
<b>Organisations</b>	USDA Graduate School, International Institute for Training and Education. Training at US Geological Survey, Maryland State Department of Water resources, California Department of Water Resources, NASA (Hydrology Science Branch), depending on the area of training and timing.
<b>City, country</b>	Locations where the agencies have sites and offices, USA.
<b>Topics covered</b>	Hydrology cycle, data collection and management, information setup and management, modelling. Others on request.
<b>Visits</b>	Work sites of the agencies, and other facilities.
<b>Methods, approach</b>	Lectures, assignments, on-the-job training, seminars and discussions, case studies.
<b>Duration</b>	6- 8 weeks.
<b>Scheduled delivery time</b>	October,1997; May,1998; October,1998; May,1999.
<b>Max. number of participants per course</b>	About 12 for specially organised classes, or a smaller number when training is arranged within an agency
<b>Admission requirements</b>	Education :BE Civil (Engineering) Experience:About 10 years in water resources including 5 years in hydrology and hydrological field observations, data collection and management. Knowledge of computers is essential.
<b>Certificates</b>	Certificate of participation on successful completion of course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## **Overseas training courses: *surface water***

<b>Course title</b>	<i>Hydrological investigations, data management and informations systems</i>
<b>Organisation</b>	United States Department of Interior, Bureau of Reclamation
<b>City, country</b>	Denver, Colorado, USA.
<b>Topics covered</b>	Hydrological investigations, collection and dissemination of data, applications of advanced decision support systems(ADSS) for water resources management issues
<b>Visits</b>	Hydrological data collection sites, water development projects as required.
<b>Methods, approach</b>	Lectures, assignments, on-the-job training, seminars and discussions.
<b>Duration</b>	4-6 weeks
<b>Scheduled delivery time</b>	October, 1997; May, 1998; October 1998; May 1999
<b>Max. number of participants per course</b>	10-12
<b>Admission requirements</b>	Education : BE(Civil Engineering) Experience: About 10 years in water resources engineering including 5 years on hydrology and hydrological observations in the field. Knowledge of computers is essential
<b>Certificates</b>	Certificate of participation on successful completion of course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *surface water*

<b>Course title</b>	<i>Flood forecasting</i>
<b>Organisation</b>	United States, Department of Interior, Bureau of Reclamation.
<b>City, country</b>	Denver.USA.
<b>Topics covered</b>	Technical investigations, designs, flood hydrology and flood forecasting .
<b>Visits</b>	Water development projects, sites related to the course objectives.
<b>Methods, approach</b>	Lectures, assignments, on-the-job training, seminars, and discussions.
<b>Duration</b>	4-6 weeks.
<b>Scheduled delivery time</b>	October, 1997; May, 1998; May, 1999 and other times at the convenience of the Bureau, availability of the staff etc.). Three months advance notice required.
<b>Max. number of participants per course</b>	10-12.
<b>Admission requirements</b>	Education : BE (Civil Engineering) Experience: About 10 years in water resources planning, including 5 years on hydrology and hydrological investigations.
<b>Certificates</b>	Certificate of participation on successful completion of the course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *hydrometeorology*

<b>Course title</b>	<i>Hydrometeorological data collection and information systems</i>
<b>Organisation</b>	United States Department of Interior, Bureau of Reclamation.
<b>City, country</b>	Denver, USA
<b>Topics covered</b>	Collection and dissemination of hydrometeorological data, modern and automated techniques of measurement, analysis, use of advanced decision support systems (ADSS) to provide information on water availability for various uses
<b>Visits</b>	Hydrometeorological observation sites, data management centers etc.
<b>Methods, approach</b>	Lectures, assignments, on-the-job training, seminars and discussions.
<b>Duration</b>	6 weeks
<b>Scheduled delivery time</b>	May, 1998 and May, 1999, and other times at the convenience of the agency and availability of staff..
<b>Max. number of participants per course</b>	2 to 3
<b>Admission requirements</b>	Education : MSc. in relevant subjects Experience: About 10 years in hydrometeorology and hydrometeorological practices
<b>Certificates</b>	Certificate of participation on successful completion of the course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *hydrometeorology*

<b>Course title</b>	<i>Hydrometeorological data observation, collection, management and information systems</i>
<b>Organisation</b>	USDA Graduate School, International Institute for Training and Education. Training organised at specialist organisations / institutes.
<b>City, country</b>	Locations of the agencies, USA.
<b>Topics covered</b>	Hydrometeorological data collection, analysis, storage, transmission, information systems
<b>Visits</b>	Observation sites, offices of agencies etc.
<b>Methods, approach</b>	Lectures, assignments, on-the-job training, seminars
<b>Duration</b>	6 weeks
<b>Scheduled delivery time</b>	October, 1997; May, 1998; October, 1998; May, 1998
<b>Max. number of participants per course</b>	4
<b>Admission requirements</b>	Education :MSc. in relevant subjects Experience: About 10 years in hydrometeorology covering field work and data analysis, storage/retrieval, transfer and information systems.
<b>Certificates</b>	Certificate of participation on successful completion of the training.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## **Overseas training courses: *hydrometeorology***

<b>Course title</b>	<i>Hydrometeorological practices, data collection, analysis, storage/retrieval and management</i>
<b>Organisation</b>	Main organiser: World Meteorological Organisation. Training to be organised in some member countries (details to be worked out separately).
<b>City, country</b>	To be specified.
<b>Topics covered</b>	Modern hydrometeorological practices, on-the job training with state-of- the art instruments, data collection, analysis, review, storage, transmission network selection and planning/design.
<b>Visits</b>	Hydrometeorological data collection sites, network systems.
<b>Methods, approach</b>	Lectures, assignments, on-the -job training, seminars.
<b>Duration</b>	6 weeks
<b>Scheduled delivery time</b>	May,1998, October,1998 and other times convenient to the agencies.
<b>Max. number of participants per course</b>	4
<b>Admission requirements</b>	Education: Msc. in relevant subject Experience: About 10 years in hydrometeorological data collection, analysis, retrieval and data management.
<b>Certificates</b>	Certificate of participation on satisfactory completion of training.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *ground water*

<b>Course title</b>	<i>Hydrological data collection and management</i>
<b>Organisation</b>	Thiess Hydrographic Services.
<b>City, country</b>	Woori Yallock, Victoria, Australia.
<b>Topics covered</b>	Data collection and management (analysis, review, storage)
<b>Visits</b>	As required to the sites and data centers.
<b>Methods, approach</b>	Lectures, assignments, on-the-job training.
<b>Duration</b>	6 weeks approx.
<b>Scheduled delivery time</b>	Any time between September and April of following year.
<b>Max. number of participants per course</b>	12
<b>Admission requirements</b>	Education: BE(Civil Engineering) Experience: About 10 years in water resources including 5 years on hydrological observations and data management.
<b>Certificates</b>	Certificate of participation .
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *ground water*

<b>Course title</b>	<i>Ground water hydrology</i>
<b>Organisation</b>	Colorado State University, The International School for Water Resources
<b>City, country</b>	Colorado, USA
<b>Topics covered</b>	Details not provided and may be worked out in consultation with the Hydrology Project.
<b>Visits</b>	Some water development projects sites nearby
<b>Methods, approach</b>	Lectures, practice sessions, seminars, assignments.
<b>Duration</b>	4-6 weeks
<b>Scheduled delivery time</b>	May-June, 1998
<b>Max. number of participants per course</b>	12-15
<b>Admission requirements</b>	Education: BE Civil Engineering MSc geohydrology and equivalent Experience: About 10 years in water resources including 5 years in hydrology and hydrological data collections at the field. Knowledge of computers is essential.
<b>Certificates</b>	Certificate of participation on successful completion of course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *ground water*

<b>Course title</b>	<i>Hydrological data collection, processing and analysis</i>
<b>Organisation</b>	Infrastructure Hydraulics Environment (IHE)
<b>City, country</b>	Delft, The Netherlands
<b>Topics covered</b>	Ground water exploration, hydrogeostatics, groundwater monitoring, data information systems, regional geohydrological systems.
<b>Visits</b>	Geohydrological sites to observe practical applications of geoelectrical measurements, water drilling, ground water quantity and quality collection and processing, automatic data collection, transmission and processing systems.
<b>Methods, approach</b>	Lectures, practice sessions, workshops, field visits and on-the-job training
<b>Duration</b>	5 weeks
<b>Scheduled delivery time</b>	April-May 1997.
<b>Max. number of participants per course</b>	10-15
<b>Admission requirements</b>	Education: BE/MSc (Geology, Geophysics, Geohydrology) or equivalent Experience: About 10 years Ground water hydrology, including hydrological observations in the field. Knowledge of computers is essential.
<b>Certificates</b>	Certificate of attendance based upon successful completion of course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *ground water*

<b>Course title</b>	<i>Hydrological data collection and management information systems</i>
<b>Organisation</b>	USDA, Graduate School, International Institute for Training and Education. Training courses will be organised at specialist agencies viz.US Geological Survey, National Ground Water Agency, etc.
<b>City, country</b>	Locations and sites under the agencies, USA.
<b>Topics covered</b>	Hydrology cycle, hydrological data collection and management, data storage, information systems.
<b>Visits</b>	Sites, agency offices and other facilities.
<b>Methods, approach</b>	Lectures, assignments,on- the-job training, seminars and discussions.
<b>Duration</b>	6-8 weeks
<b>Scheduled delivery time</b>	October,1997; May,1998; October,1998; May, 1998.
<b>Max. number of participants per course</b>	12 in a class, or smaller number if arranged within an agency
<b>Admission requirements</b>	Education : BE (Civil Engineering) or Msc (Geohydrology /Geophysics/Geology etc.)or equivalent. Experience: About 10 years in water resources including 5 years in hydrological data collection, storage management and information systems. Knowledge of computers is essential.
<b>Certificates</b>	Certificate of participation on successful completion of course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *ground water*

<b>Course title</b>	<i>Hydrological data collection and management</i>
<b>Organisation</b>	Institute for Applied Physical Research (TNO)
<b>City, country</b>	The Netherlands
<b>Topics covered</b>	Hydrology, hydrological data collection, management, network planning, and related aspects
<b>Visits</b>	As required to sites, installations, data centers.
<b>Methods, approach</b>	Lectures, assignments, on-the- job training, seminars.
<b>Duration</b>	5-6 weeks.
<b>Scheduled delivery time</b>	To be finalised, lead time of 4 months is required. May to October preferable.
<b>Max. number of participants per course</b>	12
<b>Admission requirements</b>	Education: Msc.in relevant subjects or BE or equivalent. Experience: About 10 years in water resources including 5 years on ground water investigations, data collection management.
<b>Certificates</b>	Certificate of participation on successful completion of course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## **Overseas training courses: *ground water***

<b>Course title</b>	<i>Ground water development</i>
<b>Organisation</b>	Scott Wilson Kirkpatrick Consulting Engineers.(In association with several institutes, manufacturers, and water development agencies.
<b>City, country</b>	Hampshire,England.
<b>Topics covered</b>	Remote sensing interpretation, geophysical techniques, ground water development, advanced well-drilling techniques, use of data loggers for ground water monitoring, GIS and telemetry.
<b>Visits</b>	As required for the course
<b>Methods, approach</b>	Lectures, assignments and on- the-job training etc.
<b>Duration</b>	4-6 weeks.
<b>Scheduled delivery time</b>	May,1998; October,1998; May,1999.
<b>Max. number of participants per course</b>	12
<b>Admission requirements</b>	Education: Msc.(in appropriate subject) or BE.
<b>Certificates</b>	Certificate of participation on successful completion of course
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## Overseas training courses: *ground water*

<b>Course title</b>	<i>Hydrogeological investigations</i>
<b>Organisation</b>	United States Department of Interior, Bureau of Reclamation.
<b>City, country</b>	Denver, Colorado, USA.
<b>Topics covered</b>	Investigations, data collection, aquifer testing, analysis, aquifer recharge and recovery systems; design of wells, ground water modelling, data management.
<b>Visits</b>	Observation sites as required, data management centers.
<b>Methods, approach</b>	Lectures, assignments, on-the-job training, seminars and discussions.
<b>Duration</b>	6 weeks
<b>Scheduled delivery time</b>	May, 1998 and May, 1999 and other times depending on availability of staff and at the convenience of the Bureau.
<b>Max. number of participants per course</b>	12, smaller numbers may also be accommodated.
<b>Admission requirements</b>	Education: MSc.(Geology/Geophysics/Hydrogeology), BE (Civil Engineering) or equivalent. Experience: About 10 years in ground water hydrology. Knowledge of computers would be required.
<b>Certificates</b>	Certificate of participation on successful completion of the course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	



## **Overseas training courses: *water quality***

<b>Course title</b>	<i>Water quality information systems</i>
<b>Organisation</b>	Infrastructure Hydraulics Environment (IHE)
<b>City, country</b>	Delft ,The Netherlands
<b>Topics covered</b>	Water chemistry and biology, water quality monitoring, data analysis and processing, GIS/remote sensing for water quality assessment, ecology, microbiology, water quality evaluation and chemical and biological field surveys.
<b>Visits</b>	State-of- the-art water quality laboratories for water quality analysis, water quality measuring stations, water and waste water treatment plants, government and provincial water management boards.
<b>Methods, approach</b>	Lectures, practice sessions, workshops, field visits, and on-the-job training.
<b>Duration</b>	5 weeks
<b>Scheduled delivery time</b>	April-May,1998
<b>Max. number of participants per course</b>	10 - 15 persons
<b>Admission requirements</b>	Education: MSc.(Chemistry) or equivalent. Experience: About 10 years in the area of water quality observations (surface or ground waters), including water quality analysis at site and in a laboratory.Knowledge of computers would be helpful.
<b>Certificates</b>	Certificate of attendance on successful completion of course.
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

## **Overseas training courses: *water quality***

<b>Course title</b>	<i>Water analysis and quality</i>
<b>Organisation</b>	Loughborough University, Water engineering Development Center (WEDC), Institute of Development Engineering.
<b>City, country</b>	Loughborough, Leicestershire, United Kingdom.
<b>Topics covered</b>	Chemical, physical, biological, bacteriological analysis of raw water, waste water and industrial waste water in the field and laboratory; laboratory safety; staff training provisions; data management and quality control / assurance; laboratory management; control of surface and ground water pollution.
<b>Visits</b>	Details not provided, but may be scheduled.
<b>Methods, approach</b>	Lectures, practice sessions in laboratory, project work.
<b>Duration</b>	6 to 8 weeks
<b>Scheduled delivery time</b>	March-May, 1998.
<b>Max. number of participants per course</b>	12
<b>Admission requirements</b>	Education: Masters degree in Chemistry or equivalent. Experience: About 10 years in a water analysis laboratory. Knowledge of computers would be helpful.
<b>Certificates</b>	Based on performance and achievements in the course
<b>Remarks</b> (your suggested adaptations, special topics, questions etc.)	

**Suggested other courses for overseas training**  
(Please use one sheet for each course you would like to suggest)

<b>Hydrology discipline</b> (Surface water, ground water, water quality etc.)	
<b>Suggested course title</b>	
<b>Suggested organisation and country</b>	
<b>Suggested topics to be covered in the course</b> (in key words)	
<b>Suggested specific sites</b>	
<b>Suggested (mix of) training methods</b> (Theory, models, demonstrations, exercises, case studies, hands-on experience etc.)	
<b>Suggested duration</b>	
<b>Preferred delivery time</b>	
<b>Entry level of candidates</b>	Education : Experience:
<b>Justification.</b> Please explain briefly why this particular course is important for your organisation.	

