

**Training Course on "GroundwaterWells in the Northern Governorates in the West Bank: Sitting, Design, Construction, Testing, Operation, Maintenance, and Rehabilitation"**

**Ramallah, 10 - 22 December 2005**

**Proposed Programme of Work**

	Sat. 10 Dec. 2005	Sun. 11 Dec. 2005	Mon. 12 Dec. 2005	Tue. 13 Dec. 2005	Wed. 14 Dec. 2005	Thi. 15 Dec. 2005	Fri. 16 Dec. 2005
9:00 - 10:00	Registration  Welcome and Opening  Statements	SESSION 4  Groundwater Resources in Palestine  (OZ)	SESSION 8  Groundwater Exploration  I  (AA)	SESSION 12  Groundwater Exploration  IV  (MG)	SESSION 16  Economic Design of Wells  (AA)	Holiday	Field Trip to Ein Samya WellsField
10:00 - 10:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break		
10:15 - 11:15	SESSION 1  Basic Principles of Groundwater Hydrology  I  (AA)	SESSION 5  Aquifer Management and Sustainability  (MAS)	SESSION 9  Groundwater Exploration  II  (AA)	SESSION 13  Well Design  I  (AA)	SESSION 17  Group Exercise  III  (AA &ATA)		
11:15 - 11:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break		
11:30 - 12:30	SESSION 2  Basic Principles of Groundwater Hydrology  II  (AA)	SESSION 6  Assessment of Sustainable Yield of Aquifers  (MAS)	SESSION 10  Groundwater Exploration  III  (AA)	SESSION 14  Well Design  II  (AA)	SESSION 18  Well Drilling  I  (AJ)		
12:30 - 13:30	Lunch	Lunch	Lunch	Lunch	Lunch		
13:30 - 14:30	SESSION 3  Group Exercise  I  (AA &ATA)	SESSION 7  Descision Support System  (MAS)	SESSION 11  Group Exercise  II  (AA &ATA)	SESSION 15  Groundwater Exploration  V  (MG)	SESSION 19  Well Drilling  II  (AJ)		

	Sat. 17 Dec. 2005	Sun. 18 Dec. 2005	Mon. 19 Dec. 2005	Tue. 20 Dec. 2006	Wed. 21 Dec. 2005	Thi. 22 Dec. 2005
9:00 - 10:00	SESSION 20 Borehole Geophysics I (AA)	SESSION 24 Pump Selection and Installation (BS)	SESSION 28 Deir Sharaf Well Field: Resources Assessment, Well Design and Construction I (AA & ATA)	SESSION 32 Well Maintenance and Rehabilitation I (AJ)	SESSION 36 PWA Regulations on Well Drilling and Groundwater Abstractions (AJ)	Field Trip to Meithaloun well
10:00 - 10:15	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
10:15 - 11:15	SESSION 21 Borehole Geophysics II (AA)	SESSION 25 Pumping Test I (DAG)	SESSION 29 Deir Sharaf Well Field: Resources Assessment, Well Design and Construction II (AA & ATA)	SESSION 33 Well Maintenance and Rehabilitation II (AJ)	SESSION 37 Specific Problems and Solutions: Lessons Learned from Drilling Palestinian Wells since 1997 I (OZ - AA - AJ - DAG)	
11:15 - 11:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
11:30 - 12:30	SESSION 22 Well Construction II (AJ)	SESSION 26 Pumping Test II (DAG)	SESSION 30 Deir Sharaf Well Field: Resources Assessment, Well Design and Construction III (AA & ATA)	SESSION 34 Well Maintenance and Rehabilitation III (AA)	SESSION 38 Specific Problems and Solutions (ZM)	
12:30 - 13:30	Lunch	Lunch	Lunch	Lunch	Lunch	
13:30 - 14:30	SESSION 23 Group Exercise IV (AA & ATA)	SESSION 27 Training about using Pump Tests Software - AQTESOLV (DAG)	SESSION 31 Deir Sharaf Well Field: Resources Assessment, Well Design and Construction IV (AA & ATA)	SESSION 35 Well Tendering (AJ)	SESSION 39 Wrap up and Conclusion (AA)	

(AA) Dr. Amjad Aliewi  
(MAS) Eng. Mauth Abu Sada  
(MG) Dr. Marwan Ghanem

(ZM) Dr. Ziad Mimi  
(BS) Eng. Bassam Sawalhi  
(AJ) Eng. Ayman Jarrar

(OZ) Mr. Omar Zaid  
(ATA) Eng. Amjad Tayseer Assi  
(DAG) Eng. Deeb Abdel Ghafour