

R Owen contribution:

Outline of course contents.

- 1) Groundwater Occurrence – key issues: nature of the formation; depth to water; water quality.
- 2) Drilling Site Selection – strategic approach to site selection: maps and aerial images; reports and literature; field reconnaissance; hydrogeological expectation model; geophysical methods and surveying overview.
- 3) Well Construction – options, possibilities and limitations: appropriate drilling methods for different formations; depth to water constraints and opportunities for well construction; cost implications and financing.
- 4) Information management – types of information to be collected during and after well construction: vital static information; dynamic information; information management systems.
- 5) Maintenance of well points – key issues: ownership and responsibilities; financing maintenance; tools and spare parts inventory; institutional and community management for well points; maintaining records.

Martin Eduvie Outline of course contents.

1. Introduction
2. Groundwater occurrence (Geology/hydrogeology)
3. Drilling site selection (desk study, field reconnaissance and basic geophysical methods)
4. Borehole drilling and construction (definitions, sample collection and analysis, drilling methods, process, mud and air circulation)
5. Borehole Design (basement and sedimentary formation)
6. Pumping test (constant discharge, step test etc. data collection and analyses)
7. Water quality (physio chemical and bacteriological)
8. Borehole costing
9. Community participation
10. Report writing

I am sure this could be handled in one week including practicals.

Andre Wamba

Concerning the outline of this drilling course contents, it really looks too big for a one week course but we can do it.

I suggest to arrange and to deliver these topics as the following :

INTRODUCTION

- 1 Groundwater Occurrence-key issues: nature of the formation; depth to water; water quality.
- 2 Drilling Site Selection- strategic approach to site selection: maps and aerial images; reports and literature; field reconnaissance; hydrogeological expectation model; geophysical methods and surveying overview

- 3 Institutional and community management for well points; maintaining records.
- 4 Information management- types of information to be collected during well construction: vital static information; dynamic information; information management systems.
- 5 Well Construction- options, possibilities and limitations: appropriate drilling methods for different formations; depth to water constraints and opportunities for well construction; cost implications and financing
- 6 Maintenance of well points- key issues: ownership and responsibilities; financing maintenance; tools and spare parts inventory
- 7 One day for a field trip .

In case of a demand in AGW-Net - as Richard said - I suggest :

- **to write a training manual for these numbers of my suggested topics : 1,4,6**
- **to support some short course for the others topics : 2,3,5 including the field trip)**

I agree entirely with your suggestions and while waiting your proposals to come later, could you comment for me why do you not put in the outline of the course contents the

" 9. Community participation"

BEFORE THE

"4. Borehole drilling and construction (definitions, sample collection and analysis, drilling methods, process, mud and air circulation) "

It's because I think that before dealing with the construction of Borehole drilling and construction , we shall debate on how to include all stakeholders from the bottom to the up (Community participation, users, Institutional, traditional and community for both the future management and Maintenance and for the of well points) .