

SOLICITUD DE ACTIVIDADES PARA LA ASIGNATURA DE SEMINARIOS DEL MÁSTER DE INGENIERÍA HIDRÁULICA Y MEDIO AMBIENTE

SEMINARIO 6

Nombre de la actividad a realizar:	Hydraulic Testing for Aquifer Characterization: Getting the Information Modelers Need
Profesor responsable:	Jaime Gómez Hernández.
Tipo de actividad (V, E, U o M):	V
Objetivos de la actividad:	
Nombre del profesor o profesores que la imparten:	Jim Butler Geohydrology Section, Kansas Geological Survey and Courtesy Faculty Member, Dept. of Geology, University of Kansas.
Duración en horas:	10.
Número máximo de alumnos:	Sin límite.
Plan de actividades detallado (contenidos y distribución temporal de los mismos):	<p><u>Day One – December 10</u></p> <ul style="list-style-type: none"> Seminar Introduction The Pumping Test <ul style="list-style-type: none"> Introductory Overview The Key Elements of Test Design Identification of Governing Mechanisms <ul style="list-style-type: none"> Diagnostic Plots Derivative Methods The Impact of the Real World Aquifer Heterogeneities – How Much Can We Learn? Better Utilizing Recovery Data <p><u>Day Two – December 11</u></p> <ul style="list-style-type: none"> The Pumping Test (continued) <ul style="list-style-type: none"> Field Examples <ul style="list-style-type: none"> Confined and Unconfined Aquifers The Role of Natural Stimuli <ul style="list-style-type: none"> Fluctuations in Barometric Pressure <ul style="list-style-type: none"> Introductory Overview Removing the Impact of Barometric Pressure <ul style="list-style-type: none"> The Barometric Response Function Getting More from Water-Level Responses to Barometric Pressure <ul style="list-style-type: none"> Assessment of Well Construction Characteristics Aquitard Characterization <ul style="list-style-type: none"> Field Examples Impact of Other Natural Stimuli <ul style="list-style-type: none"> Stream-Stage Fluctuations Evapotranspirative Consumption of Groundwater

	<p><u>Day Three – December 12</u></p> <p>The Slug Test</p> <ul style="list-style-type: none"> Introductory Overview The Slug Test versus the Pumping Test The Key Elements of Test Design and Performance The Realities of the Field Additional Complications <ul style="list-style-type: none"> Aquitards Highly Permeable Aquifers New Analysis Strategies Field Examples <p><u>Day Four – December 13</u></p> <p>Introduction to High-Resolution Characterization Methods</p> <ul style="list-style-type: none"> Need for High-Resolution Methods The State of the Practice and Some Critical Limitations <p>The New Generation of High-Resolution Characterization Methods</p> <ul style="list-style-type: none"> Direct-Push Characterization Methods <ul style="list-style-type: none"> Introduction Electrical-Conductivity Profiling <ul style="list-style-type: none"> Overview and Field Examples Direct-Push Slug Tests <ul style="list-style-type: none"> Overview and Field Examples Direct-Push Injection Logging <ul style="list-style-type: none"> Overview Continuous Profiling Estimation of K Direct-Push Permeameter <ul style="list-style-type: none"> Overview Theoretical Advantages Field Examples High-Resolution K (HRK) Tool <ul style="list-style-type: none"> Overview Tool Integration and Estimation of K Large Scale Field Demonstration Tool of the Future?
Fechas:	10 (10:15 a 13:15), 11(10:15 a 12:15), 12 (10:15 a 12:45) y 13 (10:15 a 12:45) de diciembre de 2012.
Lugar de impartición:	10, 11 y 13/12 aula A4 (edificio 4H, ETSICCP) y 12/12 aula B2 (edificio 4G, ETSICCP).
Reconocimiento para los alumnos (A o T):	A (0.4 créditos).
Tipo de evaluación (solo para reconocimientos tipo T):	
Prioridad para alumnos de una intensificación (indicar la intensificación)	Ninguna.