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1986

UNIVERSIDAD DE BUENOS AIRES
FACULTAD DE CIENCIAS EXACTAS Y NATURALES

DEPARTAMENTO: CIENCIAS GEOLOGICAS
ASIGNATURA: ANALISIS DE CUENCAS SEDIMENTARIAS
CARRERA/S : LICENCIATURA Y/O DOCTORADO EN CIENCIAS GEOLOGICAS
CARACTER: OPTATIVA
DURACION DE LA MATERIA: CUATRIMESTRAL
HORAS DE CLASE: A) Teóricas 60 hs. B) Problemas 128 hs.
ASIGNATURAS CORRELATIVAS: SEDIMENTOLOGIA Y GEOLOGIA HISTORICA Y REGIONAL.


PROGRAMA

- 1.- Sedimentología y estratigrafía. Importancia en la prospección de recursos naturales. Procesos sedimentarios. Unidades litogenéticas vs. unidades litoestratigráficas. Unidades estratigráficas. Cuenca sedimentaria.
- 2.- Principios básicos de estratigrafía. Análisis estratigráfico vertical y lateral. Unidades estratigráficas operativas. Facies sedimentarias. Asociación de facies. Multifacies, litofacies, biofacies y microfacies. Metodología de trabajo.
- 3.- Ambientes deposicionales. Su importancia estratigráfica. Factores que constituyen y regulan un ambiente. Ambientes complejos. Relación entre distintos ambientes. Clasificación de los mismos. Diversos tipos. Paleoambientes. Metodología de diagnosis. Importancia prospectiva de los mismos.
- 4.- Factores a considerar para la reconstrucción de los paleoambientes: litología, asociaciones litológicas, estructuras sedimentarias, geometría de los cuerpos, datos paleontológicos y paleoecológicos. Estructuras sedimentarias: mecánicas, biológicas y químicas. Deformativas y figurativas. Medición e interpretación de las mismas. Sistemas de dispersión de los sedimentos. Ciclos sedimentarios y secuencias deposicionales.
- 5.- Facies eólicas. Generalidades. Dunas. Tipos de dunas: litorales, fluviales y del desierto. Formas de dunas: transversales, longitudinales y complejas. Estructuras diagnósticas: capas frontales, superficies de truncamiento, marcas ondulantes. Distribución de los tamaños de grano y su clasificación. Criterios para el reconocimiento de eolianitas. Importancia y significado prospectivo. Ejemplos argentinos
- 6.- Facies lagunares y lacustres. Generalidades. Identificación de las subfacies. Asociaciones litológicas y estructuras sedimentarias en cada una de ellas. Criterios para el reconocimiento y diagnosis de facies lagunares y lacustres. Significado prospectivo. Ejemplos argentinos.
- 7.- Sistemas de abanicos continentales. Generalidades. El ciclo fluvial. Espesor, texturas, geometría y estructuras sedimentarias. Litologías. Abanicos en climas húmedos y áridos. Criterios para su reconocimiento

Significado prospectivo. Ejemplos argentinos.

- 8.- Sistemas fluviales. La planicie fluvial. Generalidades. Aspectos morfológicos. Ríos rectilíneos, entrelazados y meandriformes. Análisis de la planicie de inundación y sus sedimentos. Depósitos del canal y de la llanura. Criterios para el reconocimiento de todas las facies y subfacies. Significado prospectivo. Ejemplos argentinos.
- 9.- Facies deltaicas. Generalidades. Ambiente deltaico y sus subfacies. Planicie deltaica, capas frontales y prodelta. Deltas simples y complejos. Deltas tipo Gilbert. Concepto de progradación. Deltas dominados por ríos, mareas y olas. Ejemplos de deltas actuales y fósiles. Criterios diagnósticos. Significado prospectivo. Ejemplos mundiales y argentinos.
- 10.- Facies litorales. Generalidades. Tipos de depósitos. Barras y barreras. Cordones litorales regresivos. Asociaciones litológicas y estructuras sedimentarias de las arenas litorales y de las barras. Sedimentos transgresivos. Geometría de los depósitos. Criterios diagnósticos. Significado económico. Ejemplos argentinos. Depósitos de tormentas.
- 11.- Facies de mareas. Generalidades. Facies de planicies y de los canales. Estructuras sedimentarias y asociaciones litológicas. Sistemas de corrientes y análisis de paleocorrientes. Criterios diagnósticos. Ejemplos argentinos.
- 12.- Facies marinas profundas. El talud y la llanura abisal. Abanicos submarinos. Turbiditas. Su origen. Modelo de facies de una turbidita. Variaciones verticales y laterales. Estructuras sedimentarias y asociaciones litológicas. Régimen de flujo. Criterios para el reconocimiento de ciclos turbidíticos. Significado prospectivo. Ejemplos mundiales y argentinos.
- 13.- Facies carbonáticas. Generalidades. Facies continentales, de transición y marinas. Asociaciones litológicas, estructuras sedimentarias y caracteres bioestratigráficos de cada una de ellas. Facies de plataforma, talud y turbidíticas. Criterios para el reconocimiento de facies carbonáticas. Metodología de análisis. Importancia prospectiva. Ejemplos mundiales y argentinos.
- 14.- Metodología e interpretación de los datos a partir de la información de superficie y de subsuelo. Integración de la información. Sismoestratigrafía.

Fecha:..... MARZO 1986


 Profesor:..... Dtor. Depto.:.....
 Dr. Gualter A. Chebli

NOTA: BIBLIOGRAFIA EN LAS PAGINAS SIGUIENTES

BIBLIOGRAFIA GENERAL (Susceptible de ser utilizada como consulta para todo el programa del curso)

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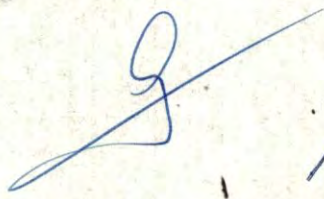
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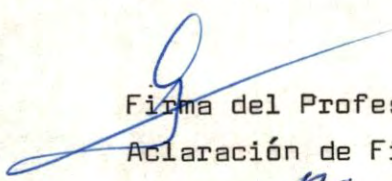
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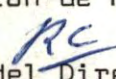
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