

Remaining Schedule for May 2010
**NEW YORK SEMINAR ON GENERAL TOPOLOGY
AND TOPOLOGICAL ALGEBRA**
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May 13, 2010: Stephen A. Saxon, University of Florida will speak on *Reconstructing the separable quotient problem* at Baruch College, Lexington Avenue and 24th Street, Mathematics Department, Vertical Campus, Room VC6-215, Tea at 3:15 p.m., Talk at 4:00 p.m. For more Information contact Aaron Todd, artodd@panix.com or aaron.todd@Baruch.cuny.edu

Abstract: Recalling elements of weak and strong barrelledness, the author suggests a simple motivation for his proof that *A Banach space has an infinite-dimensional (Hausdorff) quotient if and only if it has a dense non-barrelled subspace (Saxon/Wilansky)*.

May 20, 2010: Jerzy Kakol of Adam Mackiewicz University, Poznan, Poland, will speak on *The weak topology of a Banach space over fields different from real or complex numbers* at Baruch College, Lexington Avenue and 24th Street, Mathematics Department, Vertical Campus, Room VC6-215, the times and contact information are the same as above.

Abstract: It is known that within metric spaces analyticity and K -analyticity are equivalent concepts. It is known also that non-separable (real or complex) Weakly Compactly Generated (WCG) Banach spaces E provide concrete examples of weakly K -analytic spaces which are not weakly analytic, i.e. not analytic in the weak topology $\sigma(E, E')$ of E . We study a case which totally differs from the above one. A general theorem is provided which shows that if E is a Banach space with a norm satisfying the strong triangle inequality over a locally compact non-trivially valued field with valuation satisfying the strong triangle inequality, then E is weakly Lindelöf iff E is separable (=analytic) iff E is (WCG) iff $(E, \sigma(E, E'))$ is web-compact (in sense of Orihuela). This provides a version of a remarkable Amir-Lindenstrauss theorem.

For more information, contact:

CCNY (212-650-5125): R. Kopperman (on leave)
College of Staten Island (718-982-3626): P. R. Misra
Baruch College (646-312-4136): A. Todd
LIU C. W. Post Center (516-299-2447): S. Andima
Queens College, Comp. Sci. (718-997-3478): T. Y. Kong
Medgar Evers College, (718-270-6125), H. Pajooohesh
Queensboro College, (718-281-5291), F. Jordan