



Michal Nemcok

RESEARCH PROFESSOR

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LANGUAGES
Slovak
English
Czech
Russian
Polish
Weak German

PROFESSIONAL RESEARCH INTERESTS AND EXPERTISE –

- stress analysis
- prediction of fracture locations, kinematics, and fracturing sequence in fractured reservoirs
- fracturing and fluid flow analyze in shale settings
- basin analysis with focus on tectonics/deposition interaction

REGIONAL AND BASIN EXPERIENCE –

- Thrustbelts (worldwide): structural styles, thermal regimes and petroleum systems
- Continental break-up settings (worldwide, with emphasis on Atlantic passive margins): controls of continental break-up and their effects in syn-rift and early drift petroleum systems

EDUCATION –

- 1991 Ph.D. dissertation, Comenius University Bratislava, Czechoslovakia Title: The Cenozoic Development of Western Half of the West Carpathian Orogenic Belt (in Slovak).
- Graduate and undergraduate work, Comenius University Bratislava, Czechoslovakia: structural geology, sedimentology, paleontology, ore-analysis, geochemistry, petrology, mineralogy, programming, stratigraphy, economic geology, tectonics.
- 2002 "Venia docendi" in Geology, University of Freiberg, Germany (May 21, 2002). Thesis title: "Paleostress methods and development of the Carpathian orogenic belt" (in German).

MEMBERSHIPS –

- US Civilian Research and Development Fund award (2001-2002)

- Lise Meitner fellow (1995-1996)
- Royal Society fellow (1993-1994)
- European Geosciences Union
- International Association of Structural/Tectonic Geologists
- American Association of Petroleum Geologists
- Geological Association of Slovakia
- American Geophysical Union
- Utah Geological Association
- Geothermal Resources Council

HONORS AND AWARDS –

- Invited speaker, EUG 9 meeting, Strasbourg, France, 1997
- Invited speaker, IHS Scout meeting, Tbilisi, Georgia, November, 2004
- Invited speaker, IHS Scout meeting, Bucharest, Romania, April, 2005
- Invited speaker, HGS/PESGB conference on African exploration and production, Houston, September, 2005
- Invited speaker, IHS Scout meeting, Ankara, Turkey, October, 2005
- Invited speaker, GCS/SEPM conference “Petroleum Systems of Divergent Continental Margin Basins”, Houston, December, 2005
- GRC 2002 Annual Meeting, Reno, GRC Best Paper Award
- GRC 2003 Annual Meeting, Morelia, GRC Best Paper Award

PUBLICATIONS –

- 58 **Nemcok, M.**, Dilov, T., Wojtaszek, M., Ludhová, L., Klecker, R. A., Sercombe, W. J., Coward, M. P., 2006. Dynamics of the Polish and Eastern Slovakian parts of the Carpathian accretionary wedge: insights from paleostress analyses. In; Ries, A., Butler, R. and Gillchrist, G. (Eds.), Deformation of the continental crust, Geological Society Special Publication, in press (January 2007).
- **Nemcok, M.**, Moore, J. N., Christensen, C., Allis, R., Powell, T., Murray, B. and Nash, G., 2006. Controls on the Karaha-Telaga Bodas geothermal reservoir, Indonesia. Geothermics, in press.
- Clausen, S., **Nemcok, M.**, Moore, J., Hulen, J. and Bartley, J., 2006. Mapping fractures in the Medicine Lake geothermal system. Geothermal Resources Council Transactions, 30, 383-386.
- **Nemcok, M.**, Krzywiec, P., Wojtaszek, M., Ludhová, L., Klecker, R. A., Sercombe, W. J., Coward, M. P., 2006. Tertiary development of the Polish and Eastern Slovakian parts of the Carpathian accretionary wedge: insights from balanced cross sections. Geologica Carpathica, 57 (5), 355-370.
- Pospíil L., A. Ádám, J. Bimka, P. Bodlak, T. Bodoky, P. Dövényi, H. Granser, E. Hegedüs, I. Joó, A. Kendzera, L. Lenkey, **M. Nemcok**, K. Posgay, B. Pylypyshyn, J. Sedlák, W. D. Stanley, G. Starodub, V. Szalaiová, B. Iály, A. , G. Varga and T. Zsíros, 2006. Regional geophysical data on the Carpathian-Pannonian lithosphere. In: Pícha, F. and Golonka, J. (Eds.), The Carpathians and their foreland: geology and hydrocarbon resources, AAPG Memoir, 84, pp. 651-697.
- **Nemcok, M.**, Pospíil, L., Hručeký, I. and Zsíros, T., 2006. Subduction in the remnant Carpathian Flysch Basin. In: Pícha, F. and Golonka, J. (Eds.), The Carpathians and their foreland: geology and hydrocarbon resources, AAPG Memoir, 84, pp. 767-785
- **Nemcok, M.**, Pogacsás, G and Pospíil, L., 2006. Activity timing of the main tectonic systems in the Carpathian-Pannonian region in relation to the roll-back destruction of the lithosphere. In:

Pícha, F. and Golonka, J. (Eds.), The Carpathians and their foreland: geology and hydrocarbon resources, AAPG Memoir, 84, pp. 743-766.

- **Nemcok, M.** and Henk, A., 2006. Oil reservoirs in foreland basins charged by thrustbelt source rocks: insights from numerical stress modelling and geometric balancing in the West Carpathians. In: Buitter, S.J.H. and Schreus, G. (Eds), Analogue and numerical modelling of crustal-scale processes. Geol. Soc., London, Spec. Publ., 253, 415-428.
- **Nemcok, M.**, Stuart, C., Segall, M.P., Allen, R.B., Christensen, C., Hermeston, S. A., Davison, I., 2005. Structural development of South Morocco: interaction of tectonics and deposition. In: Post, P.J., Rosen, N., Olson, D.L., Palmes, S.L., Lyons, K.T. and Newton, G.B. (Eds.), Petroleum systems of divergent continental margin basins, 25th Annual GCSSEPM Foundation Bob F. Perkins Research Conference, Session I, Crustal architecture of divergent margins, GCSSEPM, Houston, ISSN: 1544-2462, pp. 151-202.