

## Dr. Roman Skala

### Affiliations:

- Geological Institute of the Academy of Sciences of the Czech Republic, Prague, Czech
- Institute of Geochemistry, Mineralogy and Mineral Resources, Charles University in Prague

### Research interests:

- Shock metamorphism, impact cratering, geochemistry of tektites
- Mineralogy and crystal chemistry
- Meteoritics

### Selected publications:

- Magna T., Deutsch A., Mezger K., Skala R., Seitz H.-M., Mizera J., Randa Z., Adolph L. (2011): Lithium in tektites and impact glasses: Implications for sources, histories and large impacts. *Geochimica et Cosmochimica Acta* **in print**. doi 10.1016/j.gca.2011.01.032
- Laufek F., Drabek M., Skala R. (2010): The system Ni-Sb-Te at 400°C. *Canadian Mineralogist* **48**, 1069–1079.
- Vlcek V., Cizek J., Drahokoupil J., Valenta J., Miyajima, N., Skala, R. (2010): Defects in CaF<sub>2</sub> caused by long-time irradiation and their response to annealing. *Philosophical Magazine* **90**, 2749–2769.
- Skala R., Strnad L., McCammon C., Cada, M. (2009): Moldavites from the Cheb Basin, Czech Republic. *Geochimica et Cosmochimica Acta* **73**, 1145–1179.
- Di Vincenzo G., Skala R. (2009): <sup>40</sup>Ar–<sup>39</sup>Ar laser dating of tektites from the Cheb Basin (Czech Republic): Evidence for coevality with moldavites and influence of the dating standard on the age of the Ries impact. *Geochimica et Cosmochimica Acta* **73**, 493–513.
- Skala R., Langenhorst F., Deutsch A. (2009): Geochemical characteristics of basement target rocks, suevitic glasses from the Eyreville B drill core, Chesapeake Bay impact structure, and three bediasites. In Gohn G.S., Koeberl C., Miller K.G., Reimold W.U. (Eds.): The ICDP-USGS Deep Drilling Project in the Chesapeake Bay Impact Structure: Results from the Eyreville Core Holes. *Geological Society of America Special Paper* **458**, 435–445.
- Laufek F., Drabek M., Skala R., Haloda J., Taborsky Z., Cisarova I. (2007): Vavrinite Ni<sub>2</sub>SbTe<sub>2</sub>, a new mineral species from the Kunratice Cu-Ni sulfide deposit, Czech Republic. *Canadian Mineralogist* **45**, 1213–1219.
- Povondra P., Skála R., Chapman R. (2007): Hydrothermal assemblage of Cl-, F- and OH-bearing apatite-group minerals from Maglovec, Near Prešov, Slovakia. *Canadian Mineralogist* **45**, 1355–1366.
- Skala R., Ondruš P., Veselovky F., Taborsky Z., Duda R. (2007): Vihorlatite, Bi<sub>24</sub>Se<sub>17</sub>Te<sub>4</sub>, a new mineral of the tetradymite group from Vihorlat Mts., Slovakia. *European Journal of Mineralogy* **19**, 255–265.

- Ulrych J., Adamovic J., Zak K., Frana J., Randa Z., Langrova A., Skala R., Chvatal M. (2007): Cenozoic "radiobarite" occurrences in the Ohře (Eger) Rift, Bohemian Massif: Mineralogical and geochemical revision. *Chemie der Erde–Geochemistry* **67**, 301–312.
- Nolze G., Wagner G., Neumann R.S., Skala R., Geist V. (2006): Orientation relationships of carlsbergite in schreibersite and kamacite in the North Chile iron meteorite. *Mineralogical Magazine* **70**, 373–382.
- Ondrus P., Veselovsky F., Skala R., Sejkora J., Pazout R., Fryda J., Gabasova A. (2006): Lemanskiite,  $\text{NaCaCu}_5(\text{AsO}_4)_4\text{Cl} \cdot 5\text{H}_2\text{O}$ , a new mineral species from the Abundancia mine, Chile. *Canadian Mineralogist* **44**, 523–531.
- Skala R., Cisarova I., Drabek M. (2006): Inversion twinning in troilite. *American Mineralogist* **91**, 917–921.
- Zacek V., Skala R., Chlupacova M., Dvorak Z. (2005): Ca– $\text{Fe}^{3+}$ –rich, Si–undersaturated buchite from Želénky, North–Bohemian Brown Coal Basin, Czech Republic. *European Journal of Mineralogy* **17**, 623–633.
- Skala R., Cisaiová I. (2005): Crystal structure of meteoritic schreibersites: determination of absolute structure. *Physics and Chemistry of Minerals* **31**, 721–732.
- Moretzki O., Morgenroth W., Skala R., Szymanski A., Wendschuh M., Geist V. (2005): Determination of the metal ordering in meteoritic  $(\text{Fe}, \text{Ni})_3\text{P}$  crystals. *Journal of Synchrotron Radiation* **12**, 234–240.
- Perchiazzi N., Ondrus P., Skala R. (2004): Ab initio X–ray powder structure determination of parascorodite,  $\text{Fe}(\text{H}_2\text{O})_2\text{AsO}_4$ . *European Journal of Mineralogy* **16**, 1003–1007.
- Skala R., Drabek M. (2003): Nickelphosphide from the Věcnice octahedrite: Rietveld crystal structure refinement of synthetic analogue. *Mineralogical Magazine* **67**, 783–792.
- Ondrus P., Skala R., Veselovsky F., Sejkora J., Vitti C. (2003): Cejkaite, the triclinic polymorph of  $\text{Na}_4(\text{UO}_2)(\text{CO}_3)_3$  – a new mineral from Jachymov, Czech Republic. *American Mineralogist* **88**, 686–693.
- Skala R., Drabek M. (2002): Powder data for synthetic analogue of a mineral nickelphosphide. *Powder Diffraction* **17**, 322–325.
- Ondrus P., Skala R., Cisarova I., Veselovsky F., Fryda J., Cejka J. (2002): Description and crystal structure of vajdakite,  $[(\text{Mo}^{6+}\text{O}_2)_2(\text{H}_2\text{O})_2\text{As}_2^{3+}\text{O}_5 \cdot \text{H}_2\text{O}]$  – A new mineral from Jachymov, Czech Republic. *American Mineralogist* **87**, 983–990.
- Cisarová I., Skala R., Ondrus P., Drabek M. (2001): Trigonal  $\text{Na}_4[\text{UO}_2(\text{CO}_3)_3]$ . *Acta Crystallographica E* **57**, I32–I34.
- Ondrus P., Vavrin I., Skala R., Veselovsky F. (2001): Low–temperature Ni–rich lollingite from Haje, Příbram, Czech Republic. Rietveld crystal structure refinement. *Neues Jahrbuch für Mineralogie–Monatshefte* **2001/4**, 169–185.
- Ridkosil T., Skala R., Johan Z., Srein V. (2001): Telluronevskite,  $\text{Bi}_3\text{TeSe}_2$ , a new mineral. *European Journal of Mineralogy* **13**, 177–185.
- Ondrus P., Skala R., Viti C., Veselovsky F., Novak F., Jansa J. (1999): Parascorodite,  $\text{FeAsO}_4 \cdot 2\text{H}_2\text{O}$  – a new mineral from Kank near Kutná Hora, Czech Republic. *American Mineralogist* **84**, 1439–1444.

- Bouska V., Cisarova I., Skala R., Dvorak Z., Zelinka J., Zak K. (1998): Hartite from Bilina. *American Mineralogist* **83**, 1340–1346.
- Cejka Jiri, Sejkora J., Skala R., Cejka Jan, Novotna M., Ederova J. (1998): Contribution to the crystal chemistry of synthetic becquereite, billietite and protasite. *Neues Jahrbuch für Mineralogie–Abhandlungen* **174**, 159–180.
- Cejka J., Cejka J., Skala R., Sejkora J., Muck A. (1998): New data on curite from Shinkolobwe, Zaire. *Neues Jahrbuch für Mineralogie–Monatshefte* **1998**, 358–402.
- Hybler J., Petricek V., Jurek K., Skala R., Cisarova I. (1997): Structure determination of vistepite  $\text{SnMn}_4\text{B}_2\text{Si}_4\text{O}_{16}(\text{OH})_2$ : Isotypism with bustamite, revised crystallographic data and composition. *Canadian Mineralogist* **35**, 1283–1292.
- Zak K., Skala, R. (1993): Carbon isotopic composition of whewellite ( $\text{CaC}_2\text{O}_4 \cdot \text{H}_2\text{O}$ ) from different geological environments and its significance. *Chemical Geology, Isotope Geoscience Section* **106**, 123–131.

#### **Membership in international and national scientific societies:**

Czech Geological Society

Czech and Slovak Crystallographic Society

European Crystallographic Association, Special Interest Group on Mineralogical Crystallography

Meteoritical Society

#### **Service to the scientific community:**

- **Reviewer for:**

American Mineralogist, Geochimica et Cosmochimica Acta, Geologica Carpathica, Meteoritics and Planetary Science, Mineralium Deposita, Mineralogical Magazine, Geological Society of America Special Papers, Physics and Chemistry of Minerals, Sedimentary Geology

- **Editing experience:**

Member of the Editorial Board of *Bulletin mineralogicko–petrografickeho oddeleni Narodniho muzea v Praze* (1994–1997)

Guest editor of the special issue of the *Bulletin of the Czech Geological Survey* Vol. 77 dedicated to moldavites, shock metamorphism, and impact process

Member of the Editorial Board of *Journal of the Czech Geological Society* (2005–2007)

Member of the Editorial Board of *Journal of Geosciences* (formerly Journal of the Czech Geological Society) (2007–), <http://www.jgeosci.org>.

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- **Organization of conferences:**

- 57th Annual Meeting of the Meteoritical Society, Praha, 1994 (member of the organizing committee)

- 18th European Crystallographic Meeting, Praha, 1998 (member of the organizing committee)

- IX International Conference on Moldavites, Tektites and Impact Processes, Frantiskovy Lazne, 2002 (member of organizing committee)