

Ústav fyzikální chemie J. Heyrovského, v.v.i.  
Akademie věd České republiky

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zve všechny zájemce na ústavní seminář,  
na kterém promluví

## **Profesor Zeev Gross**

*Technion, Haifa, Izrael*

na téma

# **Tuning fundamental properties of corroles for utilization in energy and medicine applications**

Seminář se koná  
[ve středu 20. února 2013 od 10:30 hodin](#)  
v Brdičkově posluchárně ústavu  
v Praze 8, Dolejškova 3.

*Těšíme se na Vaši účast. Hosté jsou vítáni.*

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*Technion, Haifa, Izrael*

**Tuning fundamental properties of corroles for utilization in energy and medicine applications**

Metalloporphyrins are receiving increased interest in recent years due to the exceptional properties that the tetrapyrrolic porphyrin macrocycle induces onto metal ions chelated by it. This includes the strong reducing power of trivalent metals and the large stability of higher oxidation states. These features are responsible for the large utility of metalloporphyrins for prime importance aspects relevant to energy and medicine, such as the activation of small molecules:  $O_2$ ,  $CO_2$ ,  $H^+$ ,  $H_2O_2$ ,  $HOONO$ , and more. This lecture will describe how to tune the chemical and photophysical features of porphyrins and the corresponding metal complexes for achieving superior performances in various applications.

