Joint -E S A O – A S A I O
Winter School 2010

21.-23.01.2010

Bioartificial Organs & Cell Therapy

A joint activity of the European Society of Artificial Organs
and the American Society for Artificial Internal Organs

Artis Hotel Semmering
A-2680 Semmering 99

Mission of the ESAO Winter Schools:

- Provide High level education in specific fields of artificial organs
- "Teach the Teachers"
- Provide interaction among scientific participants in an attractive atmosphere

Scientific Committee:

Chairmen: Dieter Falkenhagen (Krems), Edward F Leonard (New York), Michael Lysaght (Providence), Heinrich Schima (Vienna)

Jeffrey Hubbell (Lausanne), James Kirkpatrick (Mainz), Hans Jörg Meisel (Halle/Saale), Jörg Vienken (Bad Homburg), Beat Walpoth (Geneva)

Organising Committee:

Sarah Leonard (New York)
Anita Aichinger (Krems)

Questions regarding this conference may be directed to either the chairs (program and content) or to the congress office (arrangements).

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This Winter School will examine the interfaces between

- **organ replacement technologies**
- **research in biomaterials**
- **tissue engineering**
- **regenerative medicine**
- **cell therapy**

Existing artificial organ technologies are almost exclusively based on synthetic biomaterials. New biomaterials research is largely devoted to understanding and developing improved interfaces between artificial materials and biological cells and molecules. Tissue engineering is centered on the directed growth of cells on surfaces and on constructs that include so-called "scaffolds." Regenerative medicine explores tissue regeneration by the stimulation of growth of both endogenous and exogenous cells, including stem cells. While each of these disciplines contains an energetic and diverse scientific base, none is centrally focused on the development of bioartificial replacements for major internal organs.

This meeting aims to explore and exploit the connections between these scientific bases in order to address directly the possibilities for less artificial, more biological organ replacements.

The meeting will comprise a diverse mix of scientists whose work contributes to the development of bioartificial organs.

Travel information:
by car:
Semmering is situated 7 km from the S6 Semmering motorway and 90 km from Vienna. (http://www.touristcam.at/routenplaner.php)

by train:
More than 20 trains stop every day at the Semmering railway station, coming from Vienna and Graz. (http://www.oebb.at)
by airplane:
The Vienna airport is only 100 km from Semmering.

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http://www.artis-semmering.at

Artis Hotel Semmering

Semmering:
The Semmering resort is about 1000m above sea level in a marvellous mountain location. The surroundings include not only picturesque mountains and stone formations, but also the world's first mountain railway, which was constructed in the 1850s and is part of the Unesco world heritage. With 16 spectacular viaducts, 15 tunnels, 142 vertical structures, 129 bridges, modelled rock faces and supporting walls, it was built in only six years. The densely forested region has been developed for tourism with classical hotels and villas. Semmering became a famous meeting area for monarchical society and hosted as well such prominent visitors as Schnitzler, Werfel, Kokoschka, Brahms, Mahler, Schönberg, and Webern. This historic atmosphere has been preserved.

Semmering is also famous for Winter sports and Summer hiking. The Semmering ski resort, which hosts World Cup alpine skiing events, is located at the pass and extends into the Hirschenkogel mountains.