



Practical Applications of planar bilayer lipid membranes (BLMs)

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This talk will cover the following topics:

- **The lipid bilayer principle of biomembranes,**
- **Experimental BLMs, and**
- **Applications:** The fundamental feature of analytical sensor is its possibility of easy use in different places, and such operation mode that sensor is introduced into the sample and not sample introduced into the measuring instrumentation. The current trend is owing to increasing fields of rapidly growing electronics and microelectronics, and material science. All these branches of science and technology create favorable background for development of sensor technologies for chemical analysis and biomedical labs. As the beginning of development of sensor technology, a design of a potentiometric glass electrode for pH measurements is an outstanding example. In the past decade or so, the formation of supported planar BLMs, especially those produced on solid supports, is a potentially attractive technique for use in sensor technology. Aspects of practical applications of BLMs will be described.

The Speakers will base this lecture on the articles and books they have written/edited:

<http://www.msu.edu/user/ottova/membrane.biophysics.html>

<http://www.elsevier.com/inca/publications/store/6/7/2/6/8/6/index.htm>

http://www.msu.edu/user/ottova/planar_lipid_bilayers.html

Date: 20 Jun 2003, Friday
Time: 4 - 5 pm
Venue: LT 32
Host: A/P Sheu Fwu-Shan

All are welcome