**Hiden Reference: AP0002** 

Hiden Product: HPR-30 Vacuum Process Gas Analyser



## Surface characteristics of parylene-C films in an inductively coupled O<sub>2</sub>/CF<sub>4</sub> gas plasma

We investigated the degradation mechanism of OTFT performance in the plasma processing. In order to examine the origin of the degradation mechanism due to the plasma exposure, between relationships operating parameters and plasma species should be fabrication analyzed for of high performance transistor in the plasma processing. So, we extracted the plasma using quadrupole spectrometry (QMS). Then, we applied this result for analyzing а degradation mechanism of OTFT devices.



Fig. 2 Discussing the extracted data with a co-worker Left: Dr Yong-Hyun Ham Right: Professor Kwang-Ho Kwon



Fig. 1 Photograph of the Hiden Mass Spectrometer in use in our lab

## **Project Summary by:**

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## Paper Reference:

"Surface characteristics of parylene-C films in an inductively coupled O<sub>2</sub>/CF<sub>4</sub> gas plasma" Thin Solid Films, Volume 518, Issue 22, 01-Sept-10, Pages 6378-6381

## **Hiden Product:**

HPR-30 Vacuum Process Gas Analyser

Follow the link to the product catalogue on our website for further information: <a href="http://www.hidenanalytical.com/index.php/en/product-catalog/34-residual-gas-analysers/46-hpr-30-process-gas-analyser">http://www.hidenanalytical.com/index.php/en/product-catalog/34-residual-gas-analysers/46-hpr-30-process-gas-analyser</a>