

<sub>特集</sub> 高機能エンジン計測

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# Horiba/Jobin Ybon (JY) Global Technology Deveropment

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# Foreword 巻頭言

# Horiba / Jobin Yvon (JY) Global Technology Development

wo years ago the Horiba group acquired Instruments S.A. (Jobin Yvon) a French company specialized in the field of scientific instruments for spectroscopy. The origin of Jobin Yvon, 500 people strong and based mainly in Paris, France and Edison, New Jersey (USA), dates back 180 years to 1819.

In its very long history, the company has had a very illustrious track record of innovation in the field of optical instrumentation and of collaboration with very well known scientists such as Fresnel, Arago, Babinet, Fabry, Perot. Today this tradition continues with the joint work with the most famous university labs in France and in the USA, such as with the laboratory of Dr. Drevillion at Ecole Polytechnique in the field of Spectroscopic Ellipsometry.

JY / Horiba has a tradition of very highly technical personnel with close to 10% of the staff holding Ph. D. degrees. This has been a trademark of the company in terms of its innovation ability. The company, having been a small size company up to the purchase by Horiba, has had to rely on innovation, speed, and marketing skills to succeed.

The acquisition of JY by Horiba had global synergies in the field of commercial distribution and of technology cross fertilization as key goals.

The JY / Horiba philosophy in R&D has been to devote a small part of our resources to long term projects. For example, the first efforts on diffraction gratings were begun in the mid 1960's, the first patented innovations in this field by JY were in the late 1960's, the first significant commercial successes were ten years later, while profitability required another five years. JY is now the world leader in this field.

Since JY joined the Horiba group, several projects have been started in the direction of Global Technology Development between the Horiba operations and the JY operations. These projects will allow the Horiba group to show its leadership position in the field of scinetific and analytical instrumentation. Listed below are some of the most important ones:

### • Short term projects:

JY worldwide has standardized all of its electronics and mechanical CAD systems to the Horiba standards allowing for joint projects development.

The JY/Horiba ICP has the best performance in the market. JY and Horiba are now cooperating in order to further increase the performance and the reliability of the instrument. Horiba is bringing to JY its very expert industrial design experience.



Gilbert HAYAT, Ph.D

Chairman and CEO Instruments S.A.

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### • Medium term projects:

The Horiba strategy is to become a leader in the field of Semiconductor equipment. Horiba has had experience in the field of robotized equipment. JY has a very high performance spectroscopic ellipsometer in this field. A new fully automated wafer characterization machine utilizing Spectroscopic Ellipsometry for 300 mm diameter wafers is being readied. This product may be extended to include Raman spectroscopy and other Horiba's sensors in the future.

#### · Long term projects:

Horiba is involved in the field of Process control and JY in the field of Raman spectroscopy. JY is working in Process Raman instrumentation and future products will be created merging the experiences of the two companies.

Horiba has obtained funding from the TAO (Telecommunications Advancement Organization of Japan) for further progress in the field of Wavelength multi plexers for the telecommunication industry. The work will permit to try to exploit the large number of JY patents in the field and to reach positioning from the point of view of cost, which would make these products a success in the market place.

Global technology cooperation between Jobin Yvon and Horiba has started and will be increased in the future in order to position the Horiba group as the top technology company in the analytical instrument field. I believe firmly the synergy effect of these joint developments to increase very significantly the overall growth of the Horiba analytical and semiconductor business.

## ホリバ / Jobin Yvon (JY) のグローバル技術開発

分光応用機器を専門とするフランスのJobin Yvon (JY)は1997年にホリバグループに加わり ました。JYの歴史は古く1819年にまで遡ります。JYはFresnel, Arago, Babinet, Fabry, Perot ら著名な科学者と共同研究を行い,また,社内技術者の一割が博士号を持つという高い技 術水準を誇ってきました。つまり,技術力,スピード,マーケティング力がJY成功の原動 力だったのです。さらに,今回JYがホリバグループに加わったことにより,販売や技術開 発の面でグローバルな相乗効果が発揮できるものと期待しています。

現在,ホリバ/JY社では共同で数々のプロジェクトを始めており,これらを通して科学・分 析機器分野でホリバグループがリーダーシップを大いに発揮できるものと確信しています。 プロジェクトの主なものをご紹介いたします。

- ・短期プロジェクト
  - CADシステムをホリバ標準と統一

ICP 発光分析装置の性能・信頼性の更なる向上とコストダウン

- ・中期プロジェクト 半導体ロボット装置,偏光分光計という双方の強みを生かした300mm対応の全自動ウェ 八特性評価装置の開発。
  - ・長期プロジェクト
    - ホリバのプロセス分野での活躍とJY のラマン分光計分野での活躍の実績を融合させた 新製品開発。

光通信用波長多重技術(WDM)の開発(通信・放送機構国際研究助成対象事業)

JYとホリバとの技術協力は始まったばかりですが、今後ホリバグループが分析機器分野でのリーダーとなるため一層強固になって行くでしょう。こうした共同開発の相乗効果がホリバの分析機器および半導体機器ビジネス全体の発展にきわめて大きく寄与すると強く確信しております。