

manufacture of the proprietary EMCORE deposition technology. Dr Schumaker indicated his pleasure in announcing that Mr John A. Malatesta has joined EMCORE as VP of this Division. "Jack joins us from Applied Materials where he was a General Manager of Module Assembly. With his extensive background in operations and quality systems, Jack brings a new set of skills to EMCORE that will enhance our ability to deliver our growing backlog of customer orders. With emphasis on lowest cost of ownership, we will focus on delivering production tools that can be installed and certified rapidly." said Dr Schumaker. "We have made the commitment to achieve ISO 9000 certification and have made the investment in additional cleanroom space and engineering resources. We have expanded current manufacturing space with 4,000 sq. ft. of cleanroom assembly; part of the overall expansion of 25,000 sq. ft. to accommodate the new divisions by the end of third quarter 1996."

## Echelon Wafer Service

Perhaps the most surprising part of this announcement concerns the "Echelon Electronic Materials Division". "This is for a direct response to a need expressed by EMCORE customers for increased epitaxial wafer services as a back-up second source to their in-house capabilities," Bill Kroll told *III-Vs Review*. "Echelon will assist our customers manage peak demands for epitaxial wafers without the need to prematurely expend capital for the installation of additional MOCVD tools. The rapid growth of new applications for epitaxial compound semiconductor devices has placed our customers in a position where they must develop processes for new applications while simultaneously meeting existing demand for material production. EMCORE has provided limited materials for these customer needs, but now has made the decision to expand its customer commitment by creation of the Echelon Electronic Materials Division.

"We have taken decisive action to provide yet another customer requested service. We recognize the importance of confidentiality to the customer in the nature of their epitaxial wafers. Our integrity in this

area has been proven over the last twelve years in our TurboDisc Systems Division, and we remain as dedicated as ever in all customer activity to place their need for confidentiality and confidence in EMCORE ahead of everything we do. Complete integrity is the only manner in which we conduct our business."

Lawrence P. Wagner, formerly an Operations Manager with Shipley Company, will be VP of the Echelon Division. "We will employ five in-house production scale MOCVD reactors of the latest design, including two Enterprise and one cluster tool in support of our customer requests. These TurboDisc MOCVD systems are running on a multi-shift basis to fulfill government contracts, provide demonstration sample wafers, develop customer sponsored proprietary processes and now to provide an alternate source of wafer supply."

## Underscore Goals

"EMCORE was the first US MOCVD tool supplier to offer both research systems and full production tools using a basic scalable, well characterized reactor platform. Now the ongoing testing of this equipment in EMCORE's Echelon Division will provide EMCORE system customers with the highest reliability tools available and with lowest cost per wafer pass in the industry. EMCORE customers will have the ability to obtain epitaxial wafers from identical equipment while their own reactor is being built and installed or as a back-up alternative source. The new divisional structure and the management moves position EMCORE for continued growth. EMCORE remains committed to the goals of our customers and investors. These changes will assure our continued growth and business expansion. We have a solid, experienced, industry-seasoned team in place to carry forward our current and expanding business in all our divisions." Dr Schumaker added.

## Capital commitment

EMCORE has committed \$5.0 m of capital to install a new cleanroom with computerized wafer mapping

characterization equipment to meet today's stringent wafer process standards. It will be applying TQM, TCT and SSQA tools from the semiconductor industry to make Echelon a world class quality supplier for the customers. The company plans to have the new foundry wafer expansion completed in the third quarter of 1996.

Finally, in line with the expansion of the company's growth in TurboDisc reactor sales, Thomas Werthan has been appointed Chief Financial Officer and member of the Board of Directors. He has a substantial task to help EMCORE manage its financial requirements during expansion of staff and facilities. Managing the finances of a company with global commitments is an exciting challenge. EMCORE has staff and resources stationed around the world to support its business needs. Customer schedules and demands are first responsibility and he will coordinate financial resources to that end.

## Web's Wonderful

Bill Kroll was also very satisfied with the company's new Web site — <http://www.emcore.com> — "Again, this is in direct response to the customers coming to us with a clearly-defined need. We believed that this would help them and so we made the commitment. I think we may be the first epi company on the Web. We have something that will benefit the customer both old and new. It's great to get feedback this way — all the technical information is there on demand plus we have many links to other sites — some of whom use our systems. We and the customers are very pleased with how well organised it is. Some doubt the Web but if you do it right, it is a powerful aid to business."

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