

e-science!

Innovative Technology for Material Deposition



E-Science Introduces the Group III Valved Titan™ Source for MBE

Hudson, WI, February 6, 2006: E-Science has successfully concluded testing of the patent pending Titan™ Valved Source for deposition of Ga and In in MBE. This source provides customers with the ability to instantly change or adjust the deposition rate of their Group III sources.

The Titan™ Valved Source provides benefits to both research and high volume production customers. For researchers, the source enables deposition of more complex layer structures and provides abrupt transitions between layers. Also, by completely closing the valve, material is conserved and customers avoid unwanted deposition of material on sensitive parts in their reactors.

For high volume production customers, the ability to quickly change deposition rates greatly reduces cycle times. This provides significant cost reduction of wafers improving margins and profitability. These customers also benefit from material conservation extending campaign times and reducing maintenance periods on the reactors.

Craig Bichrt, President of E-Science, comments, “This product has been a long standing request from our customers since arsenic valved crackers were introduced over 15 years ago. We are pleased to be the first company to bring the Group III Valved Titan™ Source to market.”

The Titan™ Valved Source is suitable for deposition of Ga or In and can be installed on most research and production MBE reactors. Contact E-Science for more information on this source.

Contact Information:

E-Science, Inc.

596 Schommer Dr, Suite 100

Hudson, WI 54016

Tel: 715-381-1899

Fax: 715-381-1866

Email: info@escience.com

Web: www.escience.com

Company Background

E-Science has been providing components for deposition reactors for over 10 years. Our primary focus is the development and sale of epitaxial components for both MOCVD and MBE systems. The close relationship we maintain with our customers allows us to keep current with developing technologies and the requirements of the marketplace. We have built a solid reputation of delivering working solutions to customers quickly and efficiently.

E-Science products include effusion cells, substrate heaters, specialty valved sources, and accessories for MOCVD and MBE reactors. Whether it is a specialty designed product or one of our standard products, our knowledgeable sales associates are committed to helping you select the product that is right for you. Once your order is placed, you can be assured that our engineering and manufacturing staff will work quickly to deliver the products to you.