

# Catalyst & Technology News *February/March 2001*

A Recent Change of Ownership, but still the  
High Quality, Industry Specific Catalysts  
and Services You Expect

Earlier this year CRI International, Inc. ("CRII") acquired a 100% interest in Criterion Catalyst Company L.P., which created the opportunity to optimise the way the CRI Group of companies conduct business. CRII, the parent company, moved quickly to reorganize the existing CRI companies and combine their collective capabilities in a coherent and consistent manner with the strengths and technical expertise of Criterion. To accomplish this, CRII established two operating units - one focused on serving the refining industry, the other focused on serving the chemical industry. The refining business unit is named Criterion Catalysts & Technologies L.P. and the chemical business unit has retained the CRI name and logo and is known as CRI Catalyst Company.

# What Does Criterion Do?

The new refining business unit, Criterion Catalysts & Technologies L.P., is a blending of the “old” Criterion and the Catalyst Recovery Group of companies. The “enhanced and expanded” Criterion is engaged in research, development, manufacturing, sales and technical service for fresh hydroprocessing and reforming catalysts as before, but now also provides catalyst regeneration, pre-sulphiding and other catalyst service technologies. That’s right, the catalyst services you formerly associated with the Catalyst Recovery Group of Companies are now available to you through Criterion Catalyst & Technologies L.P.

## REGENERATION

We recently enhanced our moving belt regeneration process with the addition of a fluidized bed pretreater to offer our customers the best catalyst regeneration technology in the industry. The combination of the fluidized bed and moving-belt --- known as the optiCAT Plus<sup>SM</sup> regeneration process --- provides maximum recovery of catalytic activity and minimum catalyst loss..

## RESALE CATALYSTS AND ADSORBENTS

Criterion also purchases, sells and maintains an extensive inventory of resale hydrotreating catalysts, hydrocracking catalysts, and adsorbents. Our R&D Centers in Houston and Singapore allow us to verify the physical and chemical properties of resale catalyst and compare its activity with that of fresh in one of our fully automated four-reactor pilot plants.

## actiCAT<sup>®</sup>, PRESULPHURISING

The actiCAT<sup>®</sup>, process is the world’s leading technology for ex-situ presulphurising. It saves the refiner time on start-up, eliminates the need for temporary pumping stations, reduces exposure to hazardous sulphiding chemicals, and ensures that the refiner achieves full catalyst activity.

## LENGTH / DENSITY GRADING

Our unique length and density grading technologies allows us to recover catalyst that would otherwise be unusable because of the presence of short or highly contaminated particles.

### What Else?

Criterion is also engaged in developing and supplying a variety of process technologies. To provide our customers the best total solution, we have created a network of relationships with leading technology firms. Additionally, Criterion coordinates the efforts of CRII's affiliates serving the refining industry: (Zeolyst International; CS Metals of Louisiana, LLC ["CS Metals"]; Catalyst Technology, Inc. ["Cat Tech"] and CD Tech) to deliver to its customers the full spectrum of hydroprocessing catalysts and related services.

Grouping related activities will enable Criterion to better integrate operations and ensure that our customers receive the most cost-effective, seamless solutions to all their hydroprocessing needs. We believe this will benefit the markets that we serve: conventional hydrotreating, hydrocracking, resid hydroprocessing, lube hydrotreating, naphtha reforming, gas treating, and low-sulphur fuels. Refiners can now equate Criterion with an

integrated and comprehensive capability to deliver solutions to all their hydroprocessing-based needs.

These comprehensive solutions will be delivered by nearly 1500 people at facilities worldwide, all dedicated to serving the refining customers of Criterion. These facilities include five laboratories and technology centers, nine company-owned manufacturing sites and four manufacturing sites owned by joint venture companies. The laboratories and technology centers are located in the US, The Netherlands, Belgium and Singapore; the manufacturing sites are located in the US, Belgium, Singapore, Canada, The Netherlands, Germany and Luxembourg.

We're very excited about the enhanced and expanded capabilities of the "new" Criterion, as we believe these changes position us to better serve the needs of our refining customers. Under separate cover we are pleased to send you a full size poster reminding you of some of our catalyst service capabilities. It is titled, *"Sometimes the results of a great restoration can be breathtaking"*. The new Criterion will work very hard to produce results that will take your breath away.

 **CRITERION** **Worldwide Offices:**  
CATALYSTS & TECHNOLOGIES

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**HOUSTON:**

16825 Northchase Dr; Suite 1000  
Houston, Texas 77060-6029  
Telephone: (281) 874-2600  
Facsimile: (281) 874-2641

**CANADA:**

Suite 810, Centre 104  
5241 Calgary Trail Southbound  
Edmonton, Alberta T6H 5G8  
Canada  
Telephone: (1) 780-438-4188  
Facsimile: (1) 780-438-3473

**UNITED KINGDOM:**

1650 Parkway  
The Solent Business Park,  
Whiteley, Fareham,  
Hampshire, PO15 7AH  
England  
Telephone: (44) 1 489-881881  
Facsimile: (44) 1 489-881882

**SINGAPORE:**

298 Tiong Bahru Road  
#07-03 Central Plaza  
Singapore 168730  
Telephone: (65) 6276-3627  
Facsimile: (65) 6276-7455

**LUXEMBOURG:**

Route de Longwy, 420  
L-4832 Rodange, Luxembourg  
G.D. of Luxembourg  
Main Tel#: (352) 502-454  
Catalyst Regeneration Services  
Main Fax#: (352) 502-996

Visit us on the web: [www.criterioncatalysts.com](http://www.criterioncatalysts.com)  
e-mail address: [publicaffairs@criterioncatalysts.com](mailto:publicaffairs@criterioncatalysts.com)



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