

GTF

Refinery Technology
Guide & Directory
2010





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Introduction

Welcome to the *Global Technology Forum's Refinery Technology Guide & Directory 2010*.

Technology is at the heart of the petroleum and petrochemical refining processes and is critical to the efficiency and performance of every refinery; therefore, selecting the right service provider and solution is crucial.

This guide is intended to help industry professionals with the selection and evaluation of the optimal technology for their organisations, maximising their time and assets utilisation.

The publication provides listings of world-leading suppliers and organisations offering the latest technology, robust methodologies and excellent service capabilities.

It includes companies that procure technology licensing, catalysts, consulting for process optimisation, IT and software, cutting-edge engineering solutions and related services to the petroleum refining and petrochemical industries.

Each company in the directory has a full-page listing in which it sets out clearly its specialties and describes its relevant product suite. We hope this will enable industry professionals gain an insight of what is on offer from the specialists in the field.

Matthew Whitfield
Global Technology Forum



GTF Refinery Technology Guide & Directory 2010

Key features:

- A–Z listing of companies providing solutions and service to petroleum and petrochemical refinery operators
- Enhanced listing features full contact details, colour logo and 350-word profile
- Mailed to operators in Europe, Africa, Asia and Latin America
- Distribution at all GTF conferences and training courses until October 2010:
 - ARTC Annual Meeting, Singapore
 - ERTC Coking & Gasification, Prague
 - ERTC Asset Maximisation, Budapest
 - NARTEC Annual Meeting, North Africa
 - Refining Management Forum, Barcelona
 - ERTC Petrochemical Conference

Even if you cannot attend each event, your company profile will be seen by the delegates.

How your firm can participate:

- Enhanced listing – €1,750
 - Colour Logo, company name, full contact details, 350-word company profile or product/service description, 10 complimentary hard copies

Other opportunities:

- Co-publish a white paper, 900 words max, across two pages: €2,700 (additional pages, 450 words max: €1,300 per page).
- Advertising rates:
 - Inside front cover - €2,500
 - Inside back cover - €2,200
 - Within the directory - €2,000

Don't miss out.

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CONFERENCES & EVENTS 2010

Leaders in Oil Refining and Petrochemical Conferences for over 15 years, Global Technology Forum (GTF) are world-renowned as the leading independent provider of ERTC and ARTC conference and training services to the international oil, gas and petrochemical industries.

This impressive reputation is justly deserved. Hosted by industry professionals of the highest technical calibre, GTF events and courses are thoughtfully devised, professionally organised and, above all, efficiently managed. They provide a unique and invaluable platform for delegates to improve their knowledge by acquiring new skills and learning about the very latest sector-specific technology.

With our experience, proven pedigree and extensive network of industry contacts, GTF is ideally placed to enhance the potential of your employees and bring maximum advantage to your organisation.

ARTC Annual Meeting

9–10 March
The Fullerton Hotel, Singapore
Singapore

Refining Management Forum

June
Barcelona, Spain

ERTC Coking & Gasification

April
Prague, Czech Republic

LatAmRT Conference

September
Rio de Janeiro, Brazil

ERTC Asset Maximisation

May
Budapest, Hungary

Petrochemical Conference

October
TBC

ERTC 2010

15–17 November
Istanbul, Turkey

GTF Refinery Technology Guide & Directory 2010



Albemarle

US, Belgium, China
www.albemarle.com



Albemarle supplies top performance catalysts, technologies and related services to the petroleum refining and chemical industries. We have leading positions in fluid catalytic cracking (FCC), hydro-processing catalysts (HPC) and other specialised areas.

FCC catalysts – Albemarle has built up considerable know-how in designing and selecting the right catalytic solutions for every application. This know-how is based on smart feed characterisation, extensive pilot plant and commercial performance evaluation, co-operation with customers and the use of a kinetic FCC model.

HPC catalysts are used extensively within refineries to remove sulphur and other contaminants as well as convert heavy feedstocks into lighter, more valuable products. Albemarle offers a full range of hydro-treating and hydroconversion catalysts as well as support services and process technologies.

Alternative fuel technologies encompass a very wide range of potential energy sources. Albemarle will pursue what we believe are the most promising new pathways: biofuels, coal-to-liquids, gas-to-liquids. This includes fuels such as biodiesel as well as special products, including environmentally sound alkylation

technology. Co-operation and networking with key players in the industry, places Albemarle as a leading partner in this exciting new market.

Innovation leader – We recently introduced several new catalysts among which are the following:
GO-ULTRA™ is a powerful new catalyst specifically designed for application to gas oil feeds to increase naphtha yields by as much as 3%, while significantly reducing coke, a critical advantage for refiners. Further, this catalyst is also providing a marked improvement in bottoms-cracking capabilities.
KF 868 is designed to improve vacuum gas oil hydrocracking operations by optimising catalyst cycle length; increasing throughput; applying more selective hydrocracking catalysts; and enabling refiners to process cheaper, lower-quality feedstocks without additional capital expenditure.
KF 771 catalyst, is built on patented STARS™ technology, and is designed to offer best-in-class hydroprocessing activity for units where high hydrodesulphurisation activity is required. More specifically, KF 771 will enable ultra-low-sulphur diesel units to improve their operating margins substantially by increasing catalyst cycle length, throughput and the flexibility to process cheaper, lower-quality feedstocks.

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BASF Catalysts

US, Singapore, UK

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BASF Catalysts is a global industry leader in catalysts and adsorbents with an unparalleled commitment to the delivery of cutting-edge technology and service to the refining industry. As part of BASF – The Chemical Company, BASF Catalysts is leveraging its leading research and development platforms, global research infrastructure and passionate pursuit of innovation to develop novel, proprietary technologies to help customers meet the challenges of the market.

BASF Refining Catalysts deliver value to our customers through tailored products and services.

Fluid catalytic cracking (FCC) catalysts

Our passion to continually improve refining productivity, through our core competencies in surface and materials science, has positioned BASF to enable refiners to improve their economics with advanced catalytic technologies for today and tomorrow. The award-winning Distributed Matrix Structures (DMS) and new Proximal Stable Matrix and Zeolite (Prox-SMZ) platforms form the foundation of our innovative products.

FCC additives

BASF's wide breadth of FCC additives continues

our commitment to advancing petroleum refining technologies, which enable cost-effective environmental compliance and enhanced operating flexibility.

FCC co-catalysts

Co-catalysts are a new product category, providing the refiner with the flexibility to change the product slate of the FCC unit without changing the FCC catalyst. Changing between a maximum gasoline co-catalyst and a maximum middle distillate co-catalyst will allow the refiner to rapidly capture the most favourable economics at all times – maximising FCC unit profitability.

Solutions

Combining its experience in catalysts and refining processes, BASF Catalysts creates distinct solutions to solve your individual needs. Working with you and our technical team, we can design a tailored solution for your company.

Services

Our commitment goes beyond our products. BASF's technical support works with customers to optimise the performance of the catalyst and overall operation of the FCC unit.

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CTCI Corporation

Taiwan, Republic of China

www.ctci.com.tw



中鼎工程股份有限公司
CTCI CORPORATION

CTCI Corporation, founded in 1979 with headquarters in Taipei, is the largest engineering, procurement and construction (EPC) firm in Taiwan. Through years of hands-on experience and outstanding services – also underpinned by a pre-eminent workforce – stable financial status and sound managerial systems, CTCI has earned international prestige and goodwill.

As a leading EPC firm in Taiwan, CTCI is distinguished for its great competence in delivering comprehensive services to meet customers' requirements. The service portfolio of CTCI includes engineering design, procurement, fabrication, construction, supervision, project management, and test and commissioning. Through decades of experience in undertaking significant projects at home and abroad, CTCI has expanded its business lines from refinery, chemical and petrochemical into power, infrastructure, environmental protection, steel and nonferrous, storage and terminal and waste-to-energy fields.

With approximately 7,000 employees stationed in more than 20 subsidiaries worldwide, numerous landmark achievements and milestones have been built through synergetic efforts. CTCI, however, sustains its strong momentum, persistently tapping



into burgeoning markets to vie for the dominant role of its kind.

CTCI Corporation is hailed as the first engineering and construction company in Taiwan holding certificates of both ISO 14001 and OHSAS 18001. In addition, CTCI is registered as the first enterprise in Taiwan acquiring a verification certificate in Corporate Sustainability Report from BSI, a subsidiary of the British Standards Institution, for its compliance with the AA1000 Assurance Standard and the Global Reporting Initiative guidelines.

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Grace Davison Refining Technologies

www.grace.com

GRACE

Davison

Grace Davison Refining Technologies develop and manufacture fluid catalytic cracking (FCC) catalysts and additives that enable refiners to increase profits by improving yields and product quality. Grace Davison has introduced various new catalyst technologies for the profitable processing of a wide range of feedstocks, from hydrotreated/low metals feeds through to heavy crudes with high contaminant metal levels. In addition, Grace Davison offers FCC catalysts for maximisation of propylene, an increasingly important feedstock for the petrochemical industry, as well as FCC catalysts for the maximisation of light-cycle oil.

This product portfolio reflects customer-focused research and development, which has resulted in the development of proprietary manufacturing processes allowing unique fine-tuning of the key catalytic properties such as acidity, pore structure, metals resistance and structural stabilisation. Grace Davison is also a leading supplier of FCC additives. The current portfolio of additives allows refiners to reduce SO_x and NO_x emissions from their FCC units, as well as lowering sulphur content in gasoline and diesel fuel. In addition, Grace Davison

offers ZSM-5 additives for maximising propylene and gasoline octane, and additives promoting CO-combustion in the regenerator.

ART is a joint venture formed in 2001 combining the technology of Grace Davison and Chevron in order to develop premium state-of-the-art hydroprocessing catalysts. ART participates with leading positions in all hydroprocessing market segments, including ebullated bed resid hydrocracking, resid desulphurisation and light oil/distillate hydrotreating. The ART hydrotreating product line includes StART (silicon tolerance by ART) for naphtha hydrotreating units processing cracked naphtha feedstock, SmART (sulphur minimisation by ART) for the production of ultra-low sulphur diesel, and ApART (advanced pretreat by ART).

The staged-bed system of multiple catalysts approach of SmART and ApART is particularly suited for demanding hydrodesulphurisation applications where no sacrifice in hydrodenitrication or hydrodearomatisation can be tolerated. SmART and ART minimise hydrogen consumption and extend the cycle length of the hydrotreating units.

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Haldor Topsøe

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Through half a century's dedication to heterogenous catalysis, Topsøe has developed and strengthened its position as a leading market player in catalysts, catalytic reactions and technologies for process design.

Our markets include oil refineries, chemical plants and the energy sector, where Topsøe's catalysts and technologies ensure smooth-running and cost-efficient operations with optimal production results.

Hydroprocessing worldwide

Topsøe has developed process technologies and catalysts for virtually all areas of hydroprocessing and our catalysts and technologies are in operation in plants worldwide.

Topsøe's hydroprocessing expertise offers integrated solutions including reactor internals, grading material, catalysts, process design and detailed reactor engineering. Our supply of catalysts and technology offers clients a single point of expertise and responsibility.

In the design of new hydroprocessing units, Topsøe's research and test facilities offer clients testing opportunities including detailed feedstock and process analyses, which form the basis of tailor-made solutions.

Topsøe's refining competencies

- A broad hydroprocessing catalyst portfolio and tailor-made technologies for revamps and grassroots units meeting all specific needs of the refiner.
- In-depth knowledge of hydroprocessing reactor fluid dynamics and in-house developed designs for reactor internals ensuring efficient catalyst usage.
- More than 20 years of experience with graded-bed catalyst design based on particle size, shape, void and catalytic activity for pressure drop abatement.

Research-based catalysts and technologies

A fundamental understanding of catalyst behaviour at the nano scale enables us to continuously develop new and improved products to meet the needs of our clients. One recent development was Topsøe's BRIM™ catalyst preparation technology, which has led to a whole new generation of unmatched activity hydrotreating catalysts with great stability.

Market experience

Topsøe has designed and licensed more than 100 hydroprocessing units. Our hydroprocessing design facilities are located in the USA, India and Denmark, and our experienced engineers operate worldwide.

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Human Centered Solutions

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Human Centered Solutions
Helping People Perform

Improving Operations Effectiveness

Human Centered Solutions, LLP (HCS) is a human factors consulting company that specialises in delivering solutions for effective plant operation practices. The HCS vision is to increase operator situation awareness, establish reliable and safe plant operations, improve business profitability and enhance employee quality of life, through the principled application of human factors design principles to:

- Organisational structure
- Staffing levels and job complexity
- Work processes and practices
- Control building and control rooms
- Console work stations
- Operator display systems
- Alarm systems and alarm sounds
- Procedure systems
- Training systems
- Automation and control systems



HCS is an active member of the Abnormal Situation Management® Consortium



HCS human-machine interaction product offerings:

- HCS Advanced Operator Interface™; and
- HCS Alarm Sounds for Multiconsole Control Rooms™

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Johnson Screens

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www.johnsonscreens.com

Johnson screens®

Johnson Screens® designs and manufactures reactor internals for refining & petrochemical applications.

- Radial flow processes: centre pipes, outer baskets, scallops,
- Down flow processes: outlet baskets, inlet diffusers, collector/distributors, nozzle systems, support grids and beams, distributor trays, scale traps, etc.

Johnson Screens also offers a complete field service activity, with a specialised team of experienced supervisors being available for planned or rapid intervention, offering activities such as full installations, onsite repair, technical expertise and assistance, work supervision, inspection, etc.



Johnson Screens® Vee-wire® construction



High-capacity vessel internals

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m:pro IT Consult GmbH

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www.mpro-it.com



m:pro IT Consult is a project services and software products company serving petroleum refining, petrochemical and other industries to achieve total integration of information sources and applications, from business systems, enterprise resource planning and supply chain management through to plant information, production planning, scheduling and operations decision support.

For more than 15 years, m:pro has successfully executed integration projects in the process industries based on the m:pro Integration Platform. During this time we have applied our industry experience and achieved a high degree of standardisation in our products and implementation/solution approach. The result is a high level of investment security for m:pro customers.

The m:pro range of products and services helps to maximise exploitation of existing information potential and provides the platform to implement

business process automation across the whole enterprise, easily and quickly.

We develop solutions based on internationally recognised industry standards, combined with the latest methods and technologies for software engineering. Our best-in-class software products are based on an open, future-safe component architecture.

We can help with smarter data management and integration to achieve a great impact on cost savings, performance improvements - and you.

Enterprise-wide or point solutions made by m:pro

- Production planning, scheduling and blending
- Performance monitoring and dashboards
- Data and process quality
- Information analysis, visualisation, flowsheeting, trending and reporting
- Workflow

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Porocel

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Porocel helps you to get the most out of your catalyst investment

Porocel is a well-established global supplier of adsorbents and catalysts. These products are manufactured at our state-of-the-art production facility in Little Rock, Arkansas. With sales and technical service offices in North America, Europe and Asia, we are able to respond to any customer query within 24 hours. We have local inventories in strategic locations around the world and we can supply the right product for your application at short notice. In 2004, Porocel acquired the catalyst services business from CRI-Criterion in Louisiana, Singapore and Luxembourg. Since that time, Porocel has been supplying oil refineries and petrochemical plants with both products and services.

Our products include activated alumina-based adsorbents and catalysts for applications such as:

- Chloride removal
- Defluorination
- Dehydration
- Claus catalysts
- Acid gas adsorption (H_2S , COS, CO_2)
- Carbonyl sulphide hydrolysis

- Arsine, organic sulphur and Hg removal
- Polar organics removal
- Monomer purification
- General lights ends purification.

Our services include:

- Catalyst regeneration and reactivation
- Catalyst pre-sulphurisation: actiCAT
- Length and density grading
- Catalyst re-sale
- Catalyst reclaim
- Catalyst toll manufacturing.

With dedicated and well-trained staff at each location, all Porocel plants deliver high-quality service; from environmental/technical information and design packages, to information on transport of spent catalysts, to spent catalyst analysis, to comprehensive production certificates, and cost-effective warehousing and logistics services.

Porocel continues to develop its products and services (innovation) to serve the refining and petrochemical business in the future.

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Shell Global Solutions

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Shell Global Solutions

Shell Global Solutions supports refiners by licensing cutting-edge technology and has a corporate track record that stretches back over 50 years. We provide technical and operational support to the Shell Group (Shell), which produces around 3.5 million barrels of oil equivalent a day and is active in more than 130 countries and territories worldwide. By drawing on this extensive global operating experience, we leverage our technologies, expertise and experience for clients ranging from major international corporations through to national oil companies, government agencies and independent refineries.

Shell Global Solutions licenses cutting-edge technologies as well as providing business and operational consultancy to help customers upgrade the capacity and performance of existing units, integrate new process units into existing refinery operations, incorporate advanced catalyst systems and reactor internals and build new refineries.

With every licence, we can offer a process design package (or basic design package); detailed support to engineering, procurement and construction contractors; extended training at our facilities; start-up services; differentiated technical assistance during operation; and decision-making support.

What sets Shell Global Solutions apart from other

licensors is our corporate heritage as the owner and operator of large, complex industrial refining and petrochemical facilities. We understand the day-to-day operational, management and strategic issues faced by the industry – both locally and internationally – and have faced the same business-critical decisions.

Crucially, this heritage also provides our clients with the assurance that our technologies have been derived from and fine-tuned using real business challenges.

Best in class: The Shell technology portfolio

Shell Global Solutions' licensed refining technologies include: hydrocracking; hydrotreating – from naphtha to resid cuts; fluidised catalytic cracking; thermal conversion; distillation and separation; gasification; gas/liquid treating and sulphur processes including Cansolv Inc.'s sulphur dioxide and carbon dioxide capture technology; and catalysts from Criterion Catalysts & Technologies and Zeolyst International.

Shell Global Solutions' licensed hardware includes reactor internals.

Shell Global Solutions' licensed petrochemical technologies include: ethylene oxide/ethylene glycol processes; pyrolysis gasoline (pygas) hydrotreating; isoprene recovery processes; and catalysts from CRI Catalyst Company and CRI KataLeuna.

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Soteica Europe SL

Barcelona, Spain

www.soteica.com



Soteica is a technology company that develops, implements and maintains solutions in the area of sustainable refining. Its main focus is in energy and emissions (utilities RTO, Visual MESA), supply chain (production accounting, S-TMS, scheduling and operations support, S-SOM) and safety (operator trainers, S-OTS).

Soteica has offices in Barcelona, Houston, São Paulo and Buenos Aires, and agents in other regions of the world. Soteica has been dedicated to the application of information technology in refineries and petrochemical facilities worldwide since 1985.

Energy and emissions

Energy management and optimisation systems (Visual MESA) – Your energy watchdog, which assists you with the operation of your utilities and energy systems (such as steam, fuels and electricity) to achieve minimum cost within equipment and emissions constraints. Generates energy-related key performance indicators; monitors imbalances allowing you to keep track of leaks, measurement issues and changes in the field; and can be used open-loop or closed-loop. The utilities RTO of choice of the world's major refiners.

Supply chain

Hydrocarbon management systems (S-TMS) – A production/yield accounting system that becomes the foundation for your loss control initiatives. It assists you with your daily site-wide mass balance on a tank-by-tank and unit level. A continuous and discrete events simulator, S-SOM is also available to check the feasibility of your operations schedule including your docks, tank yards, process units and pipelines.

Safety

Operator trainer systems – Together with dynamic simulation models developed ad hoc by Soteica for each customer, S-OTS, our generic platform that allows the administration of the training activity as well as instructor review and scenario generation through an instructor station, is a high-fidelity turnkey solution for the training of your operators.

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Uhde



ThyssenKrupp

With more than 2,000 plants to its credit, Uhde is one of the world's leading engineering companies in the design and construction of refining, chemical and other industrial plants. We have subsidiaries and associates in all corners of the globe.

The activities of this global network with over 4,900 employees focus on the following sectors of the international plant construction business: hydrogen and syngas plants; oil refineries and gas technologies; coal and residue gasification and coke plants; ammonia and fertilisers; electrolysis; organic intermediates; polymers and synthetic fibres; as well as high-pressure technologies.

Please visit our website for specific information regarding our technologies and services.

From the initial concept to the completed plant

Uhde offers its customers the complete range of services associated with a licensor and/or engineering, procurement and construction contractor and a comprehensive service package

for the entire life cycle of their plants.

Uhde's scope of services ranges from the initial project study, licence or basic engineering package to operation of the turnkey plant.

In addition, we set great store by the provision of optimum services to cover every aspect of most cost-effective plant operation. Our services range from revamps, process optimisation, plant maintenance, materials and spare-parts management to personnel training for management, operating and maintenance staff.

International competence

Throughout the world our subsidiaries also provide Uhde's entire range of processes. Many international customers value the competent, comprehensive services of our regional engineering offices in successfully implementing both highly sophisticated Uhde processes and process technologies licensed by third parties. Our customers in almost all markets can rely on the expert advice of our sales offices.

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UOP LLC

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A Honeywell Company

UOP LLC, a Honeywell company, has been delivering cutting-edge technology, equipment, catalysts and adsorbents to the petroleum refining, gas processing, petrochemical production and major manufacturing industries for almost 100 years. The company's roots date back to 1914, when the revolutionary Dubbs thermal cracking process created the technological foundation for today's modern refining industry. Since then, UOP engineers have generated thousands of patents, leading to important advances in process technology, profitability consultation and equipment design. Today, UOP technology and products can be found in almost every refinery in the world. More

than 60% of the world's gasoline and more than 85% of biodegradable detergents are made using UOP technology.

UOP's world-class workforce of leading scientists and engineers are continuously innovating new methods and materials to support growing energy demand worldwide. Today, UOP is developing new ways to increase refinery yields, produce fuels that meet stricter environmental specifications and convert heavier crudes as well as converting biological feedstocks to high sustainable renewable fuels. As an open licensor, UOP technology and innovation is in a unique position to benefit refiners and fuel producers across the globe.

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TRAINING 2010

Global Technology Forum are market leaders in oil, petrochemicals and gas training courses and conferences. Below is our calendar for 2010. These courses are also available in-house. If there is a more relevant topic that we don't already cover, we can also organise for this topic to be researched and organised in-house and tailor-made for your company.

February

Fluid Catalytic Cracking Training Course
Sulphur Recovery Processes

March

Watertreating
Blending

April

Introduction to Refining

May

Distillation
Improving Refinery Profit Margins

June

Delayed Coking and Thermal Processes – A Breakdown of Visbreaking and Thermal Cracking
Hydrogen Production by Steam Reforming

September

Wastewater Treatment
Crude Oil Desalting

October

Hydrocracking

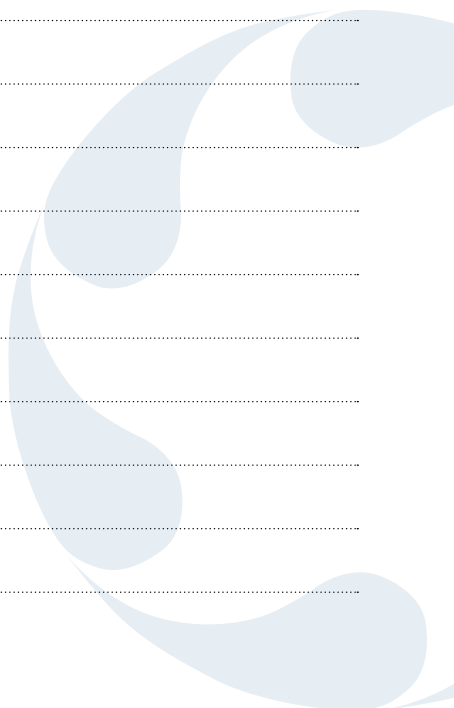
December

Catalytic Reforming
Asset Management

For more information on these courses please contact Sonia Sankoli at sonia.sankoli@gtforum.com or Mara Eusebietti at mara.eusebietti@gtforum.com

NOTES

A series of horizontal dotted lines for writing notes, spanning the width of the page.





An
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