

PAPER ORDER FORM

1995 NPRA ANNUAL MEETING

March 19-21, 1995

San Francisco, CA

- _____ **AM-95-04 IMPACT OF OXYGENATES ON PETROLEUM REFINING, REVIEW AND FORECAST** - George H. Unzelman, HyOx Incorporated
- _____ **AM-95-05 SURVIVABILITY - A 1995 UPDATE** - James A. Dudley, Wright Killen & Co.
- _____ **AM-95-06 PETROLEUM MOVEMENTS AND INVESTMENTS IN THE REFINING INDUSTRY: THE IMPACT OF WORLDWIDE ENVIRONMENTAL REGULATIONS** - Guillermo Guariguata U., Bonner & Moore Market Consultants
- _____ **AM-95-07 BEYOND REENGINEERING: IMPLEMENTING AN ORGANIZATION FOR THE FUTURE — A CASE STUDY** - Joseph Eazor, A.T. Kearney, Inc. and J.A. Ross, Phillips Petroleum Company
- _____ **AM-95-08 STRATEGIC PLANNING FOR REMEDIATION PROJECTS** - Jim W. Tapp, Pilko & Associates Inc.
- _____ **AM-95-09 AN APPROACH TO MINIMUM ENERGY PLANT DESIGN INCORPORATING PINCH TECHNOLOGY AND STATE-OF-THE-ART EQUIPMENT** - Hiroshi Yoda, and Hiromitsu Shibuya, JGC Corporation
- _____ **AM-95-10 WHAT DOES COMPUTER INTEGRATED MANUFACTURING MEAN IN A CONTINUOUS PROCESS PLANT?** - Pratap K. Nair, Profit Technologies Inc. and Frank B. Canfield, ChemShare Corporation
- _____ **AM-95-11 TOO MANY PRODUCTS AND COMPONENTS, BUT NOT ENOUGH STORAGE? EVALUATE YOUR RISK WITH MONTE CARLO SIMULATION TECHNIQUES** - Jacob Bar-Dov, and R.E. Palmer, Litwin Engineers & Constructors, Inc.
- _____ **AM-95-12 REFINERY PROCESS OPTIMIZATION: MATURING TECHNOLOGY CREATES NEW BUSINESS OPPORTUNITIES** - Frank Kleinschrodt, Lance A. Edwards, Dr. Douglas C. White, and Dr. John J. Haydel, SETPOINT, Inc.
- _____ **AM-95-13 THE PAIN IN CHANGE IS MAINLY IN THE BRAIN** - Jim E. Bianchetta, Wright Killen & Co.
- _____ **AM-95-14 NEW COSMO FCC CATALYST FOR BOTTOMS CRACKING** - Mitsuru Ohi and Toshihiro Nishiwaki, Cosmo Research Institute and Akira Fukui and Mitsugu Tsujii, Cosmo Oil Co., Ltd.
- _____ **AM-95-15 HEAVY OIL UPGRADING VIA FLUIDIZED BED AND HYDROGENATION PROCESSING** - Francis N. Dawson, Jr., California Synfuels Research Corp. (Supporting Organizations: Santa Fe Energy Resources, Inc., Argonne National Laboratory, Pilor Plant

and Analytical, and Ashland Petroleum Company)

- _____ **AM-95-16 RECYCLING REFINERY WASTE IN A DELAYED COKER** - Robert M. Scalliet and Walter Alan Carter, Scaltech Inc.

- _____ **AM-95-17 LOW PRESSURE COKER OPERATION WITH DISTILLATE RECYCLE** - Charles J. Kruse, and Ralph Ragsdale, Bechtel Corporation, and Jim R. Roth and Gary C. Hughes, Conoco Inc.

- _____ **AM-95-18 CONTROLLING VANADIUM FROM HIGH METALS CRUDE OILS** - Scott W. Golden, Glitsch, Inc. and Gary R. Martin, Process Consulting Services, Inc.

- _____ **AM-95-19 PACKINOX: ECONOMIC AND ENVIRONMENTAL ADVANTAGES OF WELDED PLATE FEED-EFFLUENT HEAT EXCHANGERS IN REFINING** - Francois R. Reverdy, P.E., Packinox, and P. K. Gualtieri, Tosco Refining Company and W. S. Mok, BHP Petroleum Americas Inc. and D. Nash, CITGO Petroleum Corporation

- _____ **AM-95-20 A SYSTEM FOR OPTIMIZING THE SCHEDULING AND BLENDING OF CRUDES** - G.A.G. Cutting, and C. A. Haverly, Haverly Systems Inc.

- _____ **AM-95-21 THE HYSULFSM PROCESS A VALUABLE HYDROGEN RESOURCE FROM HYDROGEN SULFIDE** - Mark A. Plummer, Ph.D., Marathon Oil Company

- _____ **AM-95-22 OPERATIONAL BENEFITS FROM COMPUTERIZED INFORMATION MANAGEMENT** - M. Craig Winslow, and Patrick J. Doyle, Grace Dearborn

- _____ **AM-95-23 USING A 3D CAD PLANT MODEL TO SIMPLIFY PROCESS HAZARD REVIEWS** - George Tolpa, P.E., Litwin Engineers & Constructors, Inc.

- _____ **AM-95-24 DINOSAURS CAN FLY — HIGH PERFORMANCE REFINING** - John Elting Treat, Booz-Allen & Hamilton, Inc.

- _____ **AM-95-25 REGULATORY CHANGES AND MARKET VOLATILITY --CONTINUING UNCERTAINTIES IN THE REFORMULATED GASOLINE PROGRAM** - R. Patrick Thompson, New York Mercantile Exchange

- _____ **AM-95-26 SUPERIOR REFINING PERFORMANCE BEYOND 2000—BREAKING TRADITIONAL PARADIGMS** - Brad Van Tassel, McKinsey & Company, Inc.

- _____ **AM-95-27 STRATEGIC ISSUES AND IMPLICATIONS FOR THE REFINING AND MARKETING SECTOR** - Robert A. Jeffe, Smith Barney Inc.

- _____ **AM-95-28 OFF-BALANCE-SHEET FINANCING TO THE REFINING INDUSTRY** - John H. Jenkins, P.E, The Pace Consultants Inc.

- _____ **AM-95-29 SEPARATE OLEFIN PROCESSING IN SULFURIC ACID ALKYLATION** - Scott A. Imhoff, and David C. Graves, STRATCO, Inc.

- _____ **AM-95-30 NEW HIGH SELECTIVITY CATALYST SYSTEMS FOR SEMIREGENERATIVE REFORMING** - Robert S. Haizmann, UOP
- _____ **AM-95-31 REDUCE ENVIRONMENTAL IMPACT DURING STARTUP** - Angie Shaikh, The M. W. Kellogg Company
- _____ **AM-95-32 ALKAD OPERATIONS AT TEXACO'S EL DORADO PLANT** - Dale Williams, Texaco Inc. (Retired), Stanley R. Lomax, Texaco Refining & Marketing Inc., Gerald V. Nelson, Texaco Inc. (Retired), and Harold U. Hammershaimb, UOP
- _____ **AM-95-33 IMPROVED REFORMER YIELD AND HYDROGEN SELECTIVITY WITH TRI-METALLIC CATALYST** - Robert W. Morse, Paul W. Vance, and William J. Novak, Acreon Catalysts and J.P. Franck, and J.C. Plumail, Procatalyse
- _____ **AM-95-34 FCC REGENERATOR OXYGEN ENRICHMENT** - Raghu Menon, The BOC Group, Randy Hull, BOC Gases - Americas, Richard Watson, BOC Gases - Europe, and Satish Tamhankar, and Ram Ramachandran, The BOC Group
- _____ **AM-95-35 KEY ELEMENTS IN OPTIMIZING CATALYST SELECTIONS FOR RESID FCC UNITS** - Stephen J. Yanik and Paul O'Connor, Akzo Nobel Chemicals, B.V.
- _____ **AM-95-36 ADVANCES IN FCC REACTOR TECHNOLOGY** - Mark W. Schnaith, Allyn T. Gilbert, David A. Lomas, and Daniel N. Myers, UOP
- _____ **AM-95-37 FCC REACTOR PRODUCT-CATALYST SEPARATION TEN YEARS OF COMMERCIAL EXPERIENCE WITH CLOSED CYCLONES** - Rik B. Miller, Tiffin E. Johnson, and Chris R. Santner, The M. W. Kellogg Company and Amos A. Avidan, and David L. Johnson, Mobil Research and Development Corporation
- _____ **AM-95-38 POST-RISER QUENCH IMPROVES FCC UNIT PROFITABILITY** - George P. Quinn, Amoco Petroleum Products and Michael A. Silverman, Stone & Webster Engineering Corp.
- _____ **AM-95-39 MAK-LCO: MAK LIGHT CYCLE OIL UPGRADING TO PREMIUM PRODUCTS** - David A. Pappal, and Chang-Kuei Lee, Mobil Research and Development Corporation and Kenneth W. Goebel, The M. W. Kellogg Company and Mehmet Y. Asim, AKZO-Nobel Chemicals, Inc.
- _____ **AM-95-40 CUSTOMIZED HYDROPROCESSING WITH SYNSAT** - Arthur J. Suchanek, Criterion Catalyst Company, L.P. and E. Lee Granniss, ABB Lummus Crest Inc.
- _____ **AM-95-41 NOVEL EBULLATED BED CATALYST REGENERATION TECHNOLOGY IMPROVES REGENERATED CATALYST QUALITY** - Daniel J. Neuman, TRICAT, Inc.
- _____ **AM-95-42 NEW APPLICATIONS OF NOBLE METAL CATALYSTS IN HYDROCRACKING** - Duncan H.G. Mitchell and Rick V. Bertram, UOP, and Gary D. Dencker, Marathon Oil

Company

- _____ **AM-95-43 COMMERCIAL EXPERIENCE IN VACUUM RESIDUE HYDRODESULFURIZATION** - Hiroki Koyama, Eiichi Nagai, Hidenobu Torii, and Hideaki Kumagai, Mizushima Oil Refinery, Japan Energy Corporation
- _____ **AM-95-44 MTBE — A GLOBAL PERSPECTIVE** - William I. Ludlow, K. Dexter Miller, Jr., and Richard E. Van Liew, DeWitt & Company Incorporated
- _____ **AM-95-45 ISOTEX: TEXACO'S OLEFIN SKELETAL ISOMERIZATION PROCESS** - Robert A. Sawicki, Regis J. Pellet, Erv J. Kuhlmann, Hua-Min Huang, Chi-Lin O'Young, Richard V. Kessler, and Daniel G. Casey, Texaco Research and Development
- _____ **AM-95-46 INTRODUCING THE OXYPRO PROCESS: A NEW REFINERY ETHERS PROCESS** - Scott P. Davis, Terri L. Marker, Robert J. Schmidt, and William H. Keesom, UOP
- _____ **AM-95-47 LOW COST BENZENE REDUCTION FOR RFG** - Kerry L. Rock, CDTECH
- _____ **AM-95-48 MORPHYLANE – OPERATIONAL EXPERIENCE AND RESULTS OBTAINED WITH NEW PLANTS** - Gerd Emmrich, Krupp Koppers GmbH
- _____ **AM-95-49 THE COST OF PRODUCING OXYGENATES FROM FCC GASOLINE VIA TWO PROCESSING SCHEMES** - Esa Tamminen, Dr. Harri Järvelin, Petri Lindqvist, and Jyrki Ignatius, Neste Engineering, Neste Oy and Dr. Ian Stewart, and Ralph Ragsdale, Bechtel Corporation
- _____ **AM-95-50 SULFUR AND OLEFIN MANAGEMENT IN THE GASOLINE** -Jean-Luc Nocca, and Richard M. Gialella, IFP Enterprises, Inc. and Jean Cosyns, and Jean-Pierre Burzynski, IFP
- _____ **AM-95-51 ECONOMICS AND FLEXIBILITY OF MAXOFIN™, A C₄ DEHYDROGENATION PROCESS** - Mohsen Harandi, Chuck Sorensen, and Richard Dessau, Mobil Research and Development Corporation and Ronald Bredehoft, Stan Che, and Eric Wagner, Kinetics Technology International
- _____ **AM-95-52 THERMODYNAMIC ASPECTS OF REFORMULATION OF AUTOMOTIVE FUELS** - David Zudkevitch, PhD, Columbia University in the City of New York and A. K. S. Murthy, PhD, BOC Gases and Jurgen Gmehling, PhD, Universitat Oldenburg
- _____ **AM-95-53 Paper Not Available**
- _____ **AM-95-54 BASE OIL CARCINOGENIC POTENTIAL (DETERMINATION OF SAFETY)** - Christopher M. Skisak, Ph.D., Pennzoil Company
- _____ **AM-95-55 Paper Not Available**
- _____ **AM-95-56 MOBIL LUBE DEWAXING TECHNOLOGIES** - Charles L. Baker, and Mary P. McGuiness, Mobil Research & Development Corporation

- _____ **AM-95-57 GROWTH AND OPPORTUNITIES IN THE LUBRICANTS BUSINESS IN ASIA** - Bruce F. Burke, Chem Systems, Inc.
- _____ **AM-95-58 FUEL ADDITIVES AND THE ENVIRONMENT** - presented by Richard G.F. Thatcher, Lubrizol Limited, and Trevor J. Russell, The Associated Octel Company Limited
- _____ **AM-95-59 THE ORIGIN OF NO_x IN THE FCCU REGENERATOR** - Alan W. Peters, Xinjin Zhao, and Gordon Weatherbee, Grace Davison
- _____ **AM-95-60 TOPSOE'S WET GAS SULFURIC ACID (WSA) PROCESS: AN ALTERNATIVE TECHNOLOGY FOR RECOVERING REFINERY SULFUR** - John W. Ward, Haldor Topsoe, Inc. and Ole Rud Bendixen, Haldor Topsoe A/S
- _____ **AM-95-61 WASTE MINIMIZATION AND RECYCLING OF LISTED HAZARDOUS WASTES IN PETROLEUM REFINERIES** - Craig A. Koopersmith, Scaltech Inc.
- _____ **AM-95-62 TRENCHLESS REHABILITATION OF BURIED PIPELINES VIA CURED-IN-PLACE PIPE - AN ENVIRONMENTALLY FRIENDLY SOLUTION** - Richard L. Baldwin and Phillip Sorrell, Insituform Technologies, Incorporated
- _____ **AM-95-63 MEETING BENZENE NESHAPS REGULATIONS THROUGH NEW DESALTING APPLICATIONS** - Sean Schantz, John Garcia, and John Mourer, Nalco/Exxon Energy Chemicals, L.P.
- _____ **AM-95-64 FCC CATALYST TRENDS: RESPONDING TO THE CHALLENGES OF THE 1990'S** - Joseph B. McLean, and Edward B. Bovo, Engelhard Corporation - Petroleum Catalysts
- _____ **AM-95-65 BENEFITS OF HYDROPROCESSING PRESSURE ON FLUID CATALYTIC CRACKING PERFORMANCE** - Terry A. Reid, Mehmet Y. Asim, Donald A. Keyworth, and Steve L. Wiseman, Akzo Nobel Catalysts
- _____ **AM-95-66 IMPROVED ZEOLITIC ISOCRACKING CATALYSTS** - A. J. Dahlberg, M. M. Habib, and R. O. Moore, Chevron Research & Technology Company, and D. V. Law, Chevron International Oil Company, and L. J. Convery, ABB Lummus Crest
- _____ **AM-95-67 FCC PRETREATING TO MEET NEW ENVIRONMENTAL REGULATIONS ON GASOLINE** - L. David Krenzke, Ph. D., and Ken Baron, Ph. D., UOP
- _____ **AM-95-68 EFFECTIVE STEAM REFORMING OF MIXED AND HEAVY HYDROCARBON FEEDSTOCKS FOR THE PRODUCTION OF HYDROGEN** - Dr. B.J. Cromarty, K. Chlapik, J.B. Abbishaw, and S.J. Catchpole, ICI Katalco
- _____ **AM-95-69 DESALTING "OPPORTUNITY CRUDES"** - Michael A. Dion, Betz Process Chemicals, Inc.
- _____ **AM-95-70 COMMERCIALIZATION OF THE CHEVRON FCC VANADIUM TRAP** - J.V.

Kennedy, and C.W. Kuehler, Chevron Research and Technology Company and A.S. Krishna and A.R. English, Chevron U.S.A.

_____ **AM-95-71 MODELING OF FCC UNIT MAIN FRACTIONATOR BOTTOMS PUMPAROUND FOULING** - Thomas J. Falkler, and George G. Duggan, Petrolite Corporation

_____ **AM-95-72 ENGINEERING CALIFORNIA RFG PROJECTS** - Edward J. Aitken, Murray Page, Arnold R. Smith, John S. Land, and Claus-Peter Haelsig, Fluor Daniel, Inc.

_____ **AM-95-73 EVALUATION OF MOBIL OCTGAIN™ TECHNOLOGY FOR THE MANUFACTURE OF REFORMULATED GASOLINE VIA LP MODELING** - Syamal K. Poddar, Calvin Chum, and Ralph Ragsdale, Bechtel Corporation and Timothy L. Hilbert and Michael S. Sarli, Mobil Research and Development Corporation

RETURN TO: NATIONAL PETROCHEMICAL & REFINERS ASSOCIATION

1899 L Street, N.W., Suite 1000
Washington, DC 20036
Attn: Publications Department

NAME: _____

COMPANY: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

PHONE/FAX: _____

EMAIL: _____

***Papers available in electronic format (pdf) only**

Members, Associate Members - **No Charge.**

Non-Members: \$25 per copy. Please include payment with your order.

Credit Card (circle one) Visa MC Amex

_____ Exp. Date _____

Name on card _____

Signature _____ Total Order \$ _____

Check Enclosed \$ _____

Allow 2-3 weeks for delivery