

## SMP COMMERCIAL PRODUCTS/PROCESSES

**CYCLOMAX® Low-NO<sub>x</sub> Gas Burners:** Line of burners for low-temperature air heating. Over 1000 burners sold. See products listing for Nozzle Mixing Burners on [www.maxoncorp.com](http://www.maxoncorp.com).

**Global Contact:** Mr. Mark R. Phillips  
General Sales Manager  
Maxon Corporation  
Ph: 765-284-3304  
e-mail: [mphillips@maxoncorp.com](mailto:mphillips@maxoncorp.com)

**Compact Vacotin Water Heater:** A line of water heaters using low-NO<sub>x</sub> cyclonic burners (GFL-1000, 1250).

**Japan Contact:** Mr. Toshirou Nomura  
Managing Director & Engineer-In-Chief  
TAKUMA CO., LTD.  
Ph: 81-6-6483-2710  
e-mail: [nomura@takuma.co.jp](mailto:nomura@takuma.co.jp)

**METHANE de-NOX® Reburn Process:** Combustion modifications for stoker boilers firing coal, municipal solids waste (MSW), or biomass (wood), designed to reduce NO<sub>x</sub> emissions by 50%-75%. Eight coal boilers converted at the Cogentrix plant in Richmond, VA., and one wood waste boiler at Boise Cascade Paper Mill in International Falls, MN, have been converted. Demonstrations on wood and MSW in progress.

**North American Contact:** Mr. Robert Schrecengost  
ESA Environmental Solutions  
564 Washington Avenue  
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**Japan Contact:** Mr. Toshirou Nomura  
Managing Director & Engineer-In-Chief  
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Ph: 81-6-6483-2710  
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**MORPHYSORB® Process for Upgrading Subquality Gas:** Retrofit or new installation designed to remove high concentrations of CO<sub>2</sub> and H<sub>2</sub>S from natural gas. In operation on landfill gas.

**Global Contact:** Mr. H. Maxwell Hooper  
Senior Manager, Business Development  
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## SMP COMMERCIAL PRODUCTS/PROCESSES (Cont.)

**OEAS Process for Glass Melters:** Combustion modification for end-port and side-port glass melters designed to reduce NO<sub>x</sub> emissions by 50%-75%. Ten furnaces have been converted in North America.

**Global Contact:** Mr. Daniel Wishnick  
Vice President, Glass Technology  
Eclipse Combustion, Inc.  
Ph: 407-299-7317  
e-mail: [dwishnick@combustiontec.com](mailto:dwishnick@combustiontec.com)

**OSCILLATING COMBUSTION Process:** Combustion train modification for high-temperature furnaces designed to reduce NO<sub>x</sub> emissions by about 50% and increase heat transfer to furnace products. Demonstrations at steel and glass plants are in progress.

**Global Contact for OXY-GAS:** Mr. John Barney  
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American Air Liquide  
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**Global Contact for AIR-GAS:** Mr. Hamid Abbasi  
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e-mail: [hamid.addasi@gastechnology.org](mailto:hamid.addasi@gastechnology.org)

**FORCED INTERNAL RECIRCULATION (FIR) Burner for Boilers:** Application to fire tube boilers of 75 to 3,000 hp in North America. *Johnston Boiler Company*

**Contact** Mr. Hamid Abbasi  
Gas Technology Institute  
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e-mail: [hamid.addasi@gastechnology.org](mailto:hamid.addasi@gastechnology.org)

**FORCED INTERNAL RECIRCULATION (FIR) Burner for Boilers:** Application to package water tube boilers in North America. *Coen Company, Inc.*

**Contact** Mr. Hamid Abbasi  
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## **SMP COMMERCIAL PRODUCTS/PROCESSES (Cont.)**

**SUBMERGED COMBUSTION for vitrification:** Application of this novel burner concept is specifically for vitrification of hazardous and non-hazardous wastes/ashes, and for roasting ores. *Vetrotech, Inc.*

**Contact**

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## SMP COMMERCIAL SERVICES

**FLAMESPRAY Coatings:** Two-step pipeline coating process using an epoxy base overcoated with plastic flamespray for repair and protection of field repairs. Provides protection equal to fusion-bonded epoxy coatings. Site license available for SMP member companies.

**North American Contact:** Mr. Russ Langly  
Vice President, Technical Services  
Commercial Resins Corporation  
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**India & Surrounding Territories:** Dr. Ashutosh Rastogi  
Deputy General Manager, (Technology)  
Gas Authority of India, Ltd.  
Ph: 91 11 672580, Ext. 6103  
e-mail: rastogi@gail.emet.in

**MGP-REM and PCB-REM Processes:** Bio-chem remediation of town gas soils and soils contaminated with PCBs. Full scale land-farming demonstration in fourth season at a MidAmerican Energy Co. site. Slurry and in-situ field pilot tests completed.

**Contact:** Dr. Diane Saber  
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### Business Affiliates

- GRS Valtech
- Inland Environmental, Inc.
- IT Corporation
- North American Realty Advisory Services
- Tetra Tech, Inc.
- Woodard-Curran, Inc.
- URS Corporation
- Environmental Resource Management
- ARCADIS Geraghty & Miller

### Commercial Partners

- Barr Engineering

## SMP COMMERCIAL SOFTWARE

**CASCADE, NGV Gas Blend & BIDSPEC:** Design and operating aids for natural gas vehicle fueling stations.

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**DESICALC & GAS COOLING GUIDE:** Software aids for architects, engineers, and marketing staff that assist in the selection of gas cooling options including desiccant systems. Software supplied by InterEnergy Inc., a joint venture of GRI and GTI-SMP.

**Contact:** Mr. Marek Czachorski  
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**PALM COMPUTING APPLICATIONS:** Software applications that automate and simplify field data acquisition.

**Contact:** Mr. John Kinast  
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**UTILITY COMMUNICATIONS PROTOCOLS:** Standards protocols using open architecture designs for communication and automation systems in utility operations.

**Contact:** Mr. Glyn Hazelden  
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