



2004 Activities Report

I. General Matters

- Dr E Aceto of Italgas stepped down as President of GERG on 31 December 2004.
- Mr E van Ingelghem of Fluxys, representing ARGB, became President of GERG effective 1 January 2005.
- Mr M Florette, Gaz de France, became Vice-president of GERG effective 1 January 2005.
- Gassco, Norway, became a member of GERG effective 1 January, 2004. They are represented by Mr S B Thaule.
- Gastec, The Netherlands, became a member of GERG effective 1 January, 2004. They are represented by Prof. M Wolters.

II. Programme Committees

- The Programme Committees each met twice in 2004; a list of their current and proposed projects is attached as an appendix to this report. They were chaired as follows:
 - PC General Studies Dr K Altfeld, Ruhrgas
 - PC Transmission & Storage Dr G Re, Snam Rete Gas
 - PC Distribution Mr J-P Capdevielle, Gaz de France
 - PC Utilisation Mr W J Th van Gemert, Gasunie.

III. GERG Secretariat

- Mr D Pinchbeck was General Secretary of GERG during 2004.

III.1 Highlights

- GERG members made presentations at the Eurogas Spring conference, Brussels;
- The Secretariat has continued its activities with regard to the European Commission's RTD Framework programmes in:
 - GIGA - development of a ground-probing RADAR system, with a presentation at IGRC 2004;
 - the NATURALHY Integrated Project which began on 1 May 2004;
 - ESWRAC, the European Street Works Advisory Council, lobbying for EU FP7 funding;
 - ECTP, the European Construction Technology Platform, making the case for R&D funding for gas networks in FP7;
- Nine GERG-related papers/posters were presented at IGRC 2004, Vancouver.

III.2 Events

- The GERG Board met twice during 2004:
 - Spring : - Brussels;
 - Autumn : - Sunbury (London).

III.3 Members – 2004

- | | |
|----------------------------------|-----------------|
| • Advantica Technologies | U.K. |
| • ARGB | Belgium |
| • BP | U.K. |
| • Danish Gas Technology Centre | Denmark |
| • Enagas | Spain |
| • E.ON Ruhrgas | Germany |
| • Gas Natural | Spain |
| • Gassco | Norway |
| • Gastec | The Netherlands |
| • Gasunie Research | The Netherlands |
| • Gaz de France | France |
| • Italgas | Italy |
| • Polish Oil and Gas Corporation | Poland |
| • Snam Rete Gas | Italy |
| • Statoil | Norway |

AppendixGERG Activities Report - 20041. GERG PROGRAMME COMMITTEE TOPICS: Current

Programme Committee:- General Studies for the Gas Industry
Projects in execution:
1. Rapid Gas Chromatography for Natural Gas Analysis
2. Development of a Reference Calorimeter
3. General calculation program for the GERG reference equation
4. Biogas Characterization
5. Test of Coriolis gas meters
6. Sulphur powder
7. Hydrocarbon dew-point
Projects in preparation:
1. Odourisation review
2. Study on CO ₂ sequestration
3. Feasibility of: quartz crystal sensors
4. Test of a new metal analyser

Programme Committee:- Transmission and Storage
Projects in execution:
1. Remote sensing "PRESENSE"
2. Multipath Ultrasonic Meter. Phase III
3. Procedure for diagnose of gas impurities
4. Methodologies and techniques for buried pipeline corrosion diagnosis
5. SECURE PIPE™ evaluation
6. "PIPEMON" Remote sensing
Projects in preparation:
1. CHARM: Detection of gas leaks by helicopter-borne infrared laser system
2. Gas camera

Programme Committee:- Distribution
Projects in execution:
1. Condition dependent maintenance of pipes
2. DIGBUILD - New installations in buildings
3. VOGUE - Remote leak detection
4. GIGA - Ground penetrating radar for pipe location
Projects in preparation:
1. Selecting a reliable detergent

2.	Gas-balance model for distribution networks
3.	Risk management
4.	Plastic pipe system designed for a maximum operating pressure of 16 bar
5.	Influence of non conventional pipe installation and its effect on the service life of polyethylene
6.	ALTMETER: Accelerated Lifetime Test for Synthetic Diaphragm Domestic Gas Meters
7.	LOGIN : Localisation of ground intelligent network
8.	INSITU : Infrastructure Safety In The Underground

1. GERG PROGRAMME COMMITTEE TOPICS: Current (Cont.)

Programme Committee:- Utilisation	
Projects in execution:	
1.	LABNET - Laboratory network for solving measurement problems on domestic appliances
2.	COMBO - Development of compact boiler modules based on radiant burners
3.	NATURALHY- to examine problems & benefits from distributing H ₂ in the existing natural gas network
Projects in preparation:	
1.	NGV
2.	Micro-CHP
3.	The safe introduction of biogas

2. APPROXIMATE VALUE OF GERG PROGRAMME - BY PC, OCTOBER 2004

	Value (k€)	EC funding (k€)	% of total
General Studies	1,834	0	0
Transmission & Storage	6,645	2,845	42.8
Distribution	7,508	2,192	29.2
Utilisation	21,962	12,826	58.4
Totals	37,949	17,863	47.1