



International Flame Research Foundation Contribution to CAT

by:

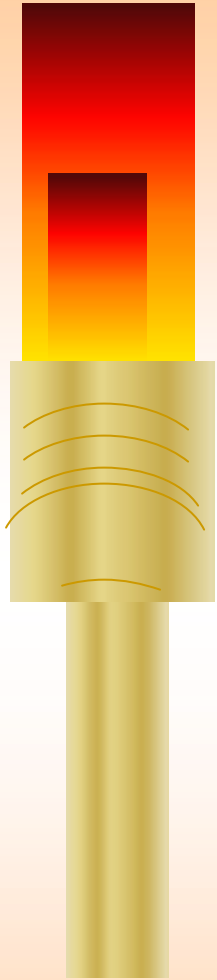
Peter Roberts

International Flame Research Foundation
Velsen-Noord, The Netherlands

Ratcliffe on Soar, England
21st April 2005



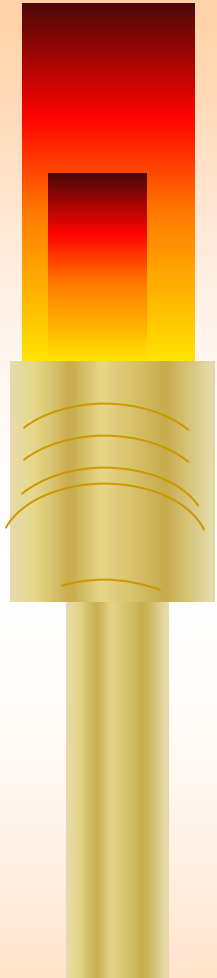
BFRC
BRITISH FLAME RESEARCH COMMITTEE



IFRF

- ✓ 50 years of experimental studies
- ✓ Flames for industry
- ✓ Data for design of more efficient combustion technology
- ✓ PowerFlam - CemFlam
- ✓ <http://www.ifrf.net>





Historical

- ✓ Advanced Combustion Technology
- ✓ PC-Oxygen-RFG
 - EC Co-Funded – Project Team – AP
 - 1993-1995
 - F98/y/4 Summary report on SIS demonstration and Inflammation Measurements – IJmuiden
 - λ March 2005 re-issued downloadable pdf
 - λ <http://www.research.ifrf.net>





Recent contributions

- ✓ TOTeM26 – Birmingham
- ✓ Nov 2003 – Joint Venture with British Flame
- ✓ All aspects of CO₂ mitigation/sequestration
- ✓ Fully reported – presentations– conclusions
- ✓ <http://www.trends.ifrf.net>

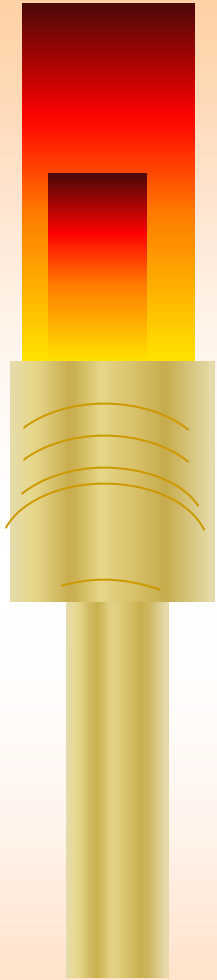




Recent contributions

- ✓ Members Conference - MC14
- ✓ Netherlands – May 2004
- ✓ Keynotes on various aspects:
 - Mitigation – Sequestration
- ✓ Workshop – conclusions for future
- ✓ All fully reported at:
- ✓ <http://www.trends.ifrf.net>





Past – Ongoing Fossil Fuel Replacement

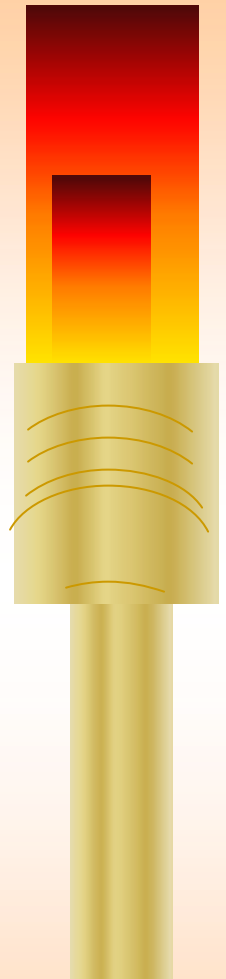
- ✓ APAS – MSS-Straw-Paper-EC
- ✓ BioFlam – Publications 2005
- ✓ PowerFlam1-Consortium-MSS
- ✓ PowerFlam2-Consortium-EC
 - Cardiff University Coordinated
 - MSS-PWW-RDF
- ✓ Growing data base
 - fuels characteristics
 - <http://www.handbook.ifrf.net>





Ongoing

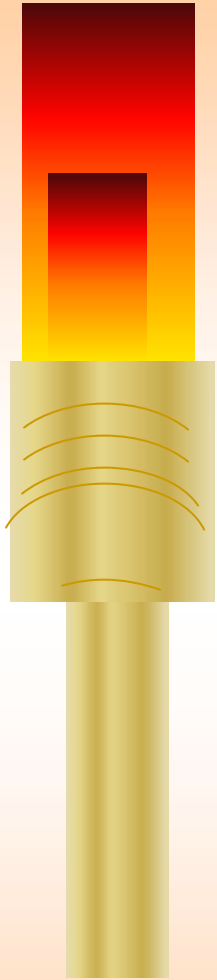
- ✓ High Efficiency Combustion programme – Members Research
 - NG-COG-Regenerative Combustion
 - Experimental – Math Modelling
- ✓ 8 Major Research/Study reports
- ✓ <http://www.research.ifrf.net>



Ongoing - Future

- ✓ Follow-up from MC14
- ✓ Study Report
 - sequestration combustion
 - Review report
- ✓ Study Report
 - Chemical Looping Technology
 - Review Report





For whom

- ✓ Members of IFRF
- ✓ Members of British Flame

