

SAMP / DCLG

The current period of funding for the Sustainable Land-won and Marine Dredged Aggregate Minerals Programme runs from 2004-07. The Programme funds research through five themes:

- a) impacts of aggregates dredging on the marine environment:
- b) environmental assessment and aggregates
- c) dissemination of good practices for community involvement and liaison in respect of aggregates operations
- d) Preparation, dissemination, and delivery of training information for stakeholders in the aggregates planning process
- e) development and initial implementation of advice on good practices in environmental management of aggregates sites for small and medium sized enterprises.

The research projects are based on one or more of the following activities:

Review based projects: studies based on new analysis of existing information leading to improved understanding, better guidance, increased information availability or innovative design criteria.

Projects that demonstrate good practices: and produce results in forms that can be readily transferred to other situations or locations

Information based projects: activities that lead to new sources of information, improved access to information, better presentation of information or approaches and strategies for technology transfer, training and increased awareness.

To date two open calls have for projects have led to the commissioning of the twenty seven projects listed below:

Contractor	Title	End Date
British Geological Survey	Visualising the past, present and future of quarries in the landscape: tools to aid community engagement.	30/03/2007
British Geological Survey	Outer Bristol Channel Marine Habitat Study - Geophysical & Video Surveys	30/03/2006
British Geological Survey	Geology and Aggregates in Charnwood Forest	30/03/2007
British Geological Survey	Foundation of the Mendips	30/03/2007
British Geological Survey	Implementing a Sustainable Geo-diversity Framework in an Area of Aggregate Extraction - Northumberland National Park.	30/03/2007
British Geological Survey	Aggregate Supply and Demand for Sustainable Communities: A practical Approach to Problem Solving	30/03/2007
British Geological Survey	Training and Information for Sustainable Aggregates Provision	30/03/2007

Center 4 Sustainability	Streamlining Environmental Impact Assessment for Aggregate Sites through Better Scoping	30/03/2006
Capita Symonds	Managing the Interface Between Planning and Licensing with Respect to Quarry Dewatering	30/03/2006
Capita Symonds	Managing the Interface Between Planning and Licensing with Respect to Quarry Dewatering - extension	30/03/2006
CEFAS	Dredging Lane Management - CFD Simulations	30/03/2006
CEFAS	Building GIS and Environmental Data Management Capabilities of the Sea Fisheries Committees	31/08/2005
Central Science Laboratory	Developing an Objective Birdstrike Risk Assessment Model for Hazardous Birds Attracted to Mineral Extraction Sites - An Aid for Environmental Assessment Policy	30/03/2007
Camborne School of Mines	An Education Strategy for the Planning and Safe Operation of Quarries	30/03/2006
David Jarvis Ass.	The Planning and Design of Aggregate Quarries for Non-Agricultural After-use	30/03/2006
David Jarvis Ass.	The Planning and Design of Aggregate Quarries for Non-Agricultural After-use - extension	30/03/2006
The Environment Practice	Pocket Guide to Environmental Legislation for Aggregate SMEs	30/03/2005
Gloucestershire Geo-conservation Trust	Geo-diversity in the Cotswolds	31/12/2005
Royal Society for Protection of Birds	Understanding the Habitat Restoration Potential of Mineral Sites in England	30/03/2007
University of Leeds	CPD Training Modules for Use by Mineral Planner, Regulators, Operators and Consultants in the Aggregate Industry	30/03/2007
Wessex Archeology	Seabed Prehistory 2: Archaeology and Marine Aggregates in the North Sea and English Channel	30/03/2007
University of Leeds	Open access website to collate and disseminate information on Environmental Good Practice for marine aggregate dredging	29/02/2007
Partrac	Direct measurement of seabed stability at a marine aggregate site using benthic flume technology	29/02/2007
British Geological Survey	Safeguarding aggregates and the environment: best practice for the definition of Mineral Consultation Areas for Aggregates	30/01/2007
C4S	Improving Strategic Environmental Assessment (SEA) for Aggregates Planning - practitioners network	30/01/2007
Capita Symonds	Minerals and the Water environment: a guide	30/01/2007
GWP	Handbook on quarry design for SME Aggregate Producers	30/01/2007

Theme E focuses on independent operators.

The current projects include:

Handbook on quarry design for SME Aggregate Producers by GWP. The expected result will be

- An accessible and practical handbook for SME aggregate producers demonstrating good practice in quarry design and promoting the advantages of applying this good practice in the following contexts:
 - preparation of planning applications and ESs that are more likely to be approved and that can be implemented as shown, thus avoiding enforcement action and/or conflict with local communities;
 - soundly based designs reduce the risk of unforeseen conditions, that might be costly or impossible to put right and may have serious safety implications (e.g. inherently unsafe methods of working in particular geotechnical settings requiring radical changes to working layouts);
 - design of final restoration schemes as part of the process should avoid quarries being left in an unsafe condition on completion;
 - a detailed extraction plan provides the only sound framework for business planning and assessment of business risk and asset values.
- A source of reference to other ALSF projects, thus raising its profile and providing a context for this research as much of it is highly relevant to quarry design and associated environmental assessment and management.

This project is currently undergoing consultation – let me know if anyone wants to join in

Pocket Guide to Environmental Legislation for Aggregate SME's by The Environment Practice, This was available at the meeting and c. 1/3 of attendees had heard of it and thought it was useful.

Previously

Development of an Environmental Management System (EMS) Guidance Manual & Toolkit for Aggregate Industry SMEs

Secure and Sustainable Slopes for Quarry & Geological Conservation

MIST

Current research projects under the MIST Programme – February 2006

The Mineral Industry Sustainable Technology Programme (MIST) is a research programme designed to address the second objective of the Aggregate Levy Sustainability Fund (ALSF): '**Promoting environmentally friendly aggregate extraction and transport**', and is managed by the Mineral Industry Research Organisation (MIRO) on behalf of DEFRA.

The MIST Programme is a 50% co-funded programme focused on reducing the environmental impact of mineral extraction through the development, promotion and implementation of sustainable technologies. The objective of MIST is '**to reduce the environmental effects of mineral extraction through development, promotion and implementation of sustainable technologies**'.

MIST has supported projects under the following research themes:

- Environmental assessment procedures and tools
- Impact mitigation and management
- Site design, operation & closure
- Knowledge and technology transfer
- Optimising resource value

www.mi-st.org.uk

Under the Mineral Industry Sustainable Technology Programme (MIST), now running until March 2007, twenty three research projects with a value of £5.34 million are currently underway. These environmental research and development projects, listed below, commence from 1st September 2005 and vary in length from 8 months to 30 months. The projects address issues in each of the five themes of MIST, environmental assessment, procedures and tools, impact mitigation and management, site design, operation and closure, knowledge and technology transfer and optimising resource value.

For further information on these projects please visit the website www.mi-st.org.uk or contact Abbie Richards at abbie.richards@miro.co.uk

Applicant	Project Title
Leeds University	Full scale quarry blasting project into the use of electronic detonators to control vibration from blasting
Capita Symonds	The development of geodiversity action plans for aggregates companies: a pilot study
Capita Symonds	Mitigating the impacts of quarry dewatering
Hull University	Understanding water table dynamics and their influence on the buried archaeological resource in relation to gravel extraction
Tarmac Group	Management and re-use of quarry assets
National Stone Centre	A systems approach to geoconservation
Marshalls Mono Ltd	Demonstrating sustainable water resource mgt in quarries

CSM, University of Exeter	Improving the standards of health & safety management in the quarrying sector
EPIC Training	Address significant gaps in the education and training provision for current and prospective managers in the quarrying industry
Leeds University	YQA: arts-science collaboration towards improved public perception
Quarry Products Association	Quarry safety for teenagers
Quarry Products Association	Virtual quarry and open access education resource
British Geological Survey	Waterless fines removal
British Geological Survey	Quarry fines minimisation
Leeds University	Development and deployment of a novel, fully integrated vibration, air overpressure and acoustic blast monitoring system for use in the aggregates industry
David Jarvis Associates	A study of current and innovative approaches to site screening and the use of soil bunds
David Roche Geoconsulting	GeoValue: Valuing geodiversity for the community
Capita Symonds	The development of geodiversity action plans for aggregate companies: A pilot study - additional partner involvement
Hafren Water	Water based quarry restoration - methodologies, technologies and approaches
Tarmac Group	Use of limestone dust and steel slag fines to remediate colliery spoil at Derwent Forest
Quarry Products Association	Cutting work related accidents, dangerous occurrences and occupational ill health by sharing best practices
EPIC Training and Consulting	To establish an e-learning source for trainee quarry managers
David Jarvis	A study of the potential application of charette stakeholder consultation process to mineral applications
Portland Sculpture and Quarry Trust	Cultural landscapes and stories of the earth: gateways for research, community participation and interpretations for the after-use of aggregate quarry sites nearing closure

