

BRITISH DAM SOCIETY



STRATEGY

May 2011

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EXECUTIVE SUMMARY

The British Dam Society (BDS) wants to:

- be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD);
- encourage students and young professionals in a career of dams and reservoirs;
- be a body of people with interest in and authority on dam-related issues;
- monitor and contribute to the agenda on the provision of technical guidance and wider research on dams for the UK;
- liaise in the UK with the Environment Agency, Defra and other interested governmental bodies associated with dams and reservoirs in the UK;
- inform the membership on national and international issues and practice concerning dams and reservoirs;
- promote public understanding of the importance of dams and reservoirs within the infrastructure of society;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;
- be highly regarded within ICOLD such that it can strongly influence ICOLD's agenda;
- be a growing and vibrant society.

The BDS has developed a number of strategic activities for achieving the above:

- A web site to improve the Society's communication both with its membership and the wider community.
- A biennial Conference
- A biennial Supervising Engineers' Forum
- A biennial International Lecture by a leading expert on a topic of interest.
- Seminars on important dam-related topics.
- Regular London and Regional technical meetings and visits.
- A journal, *Dams & Reservoirs*, published three to four times a year
- A biennial best paper prize, the Bateman Prize, to reward the best paper published in the UK on dam related matters.
- An annual young person's prize, the BDS prize, to reward the best paper published by a young person in the UK on dam related matters.
- A Photography Competition to assist in publicising dams and reservoirs.
- An annual Student Competition to encourage students' interests in dams.

These are directed and monitored by the *BDS Main Committee* via four sub-committees, for *Finances & General Purposes, Events; Communications* and *Education*. Ad-hoc sub-committees are formed for particular purposes, such as organising the biennial BDS Conference.

1. INTRODUCTION

The committee of the British Dam Society (BDS) is guided by its strategy to determine the direction of Society. A vision of the functions that the BDS should seek to fulfil has been developed over many years and a number of initiatives have been undertaken. The results are shown in several areas, such as the ongoing development of the BDS web site.

The last published strategy was in May 2007 and a recent review identified the need to update the document in several areas. These include new initiatives that have arisen from opportunities presented to the society, changes in the type and frequency of events and the removal of certain aims that have been superseded.,

The strategy now identifies and consolidates those BDS activities that are seen as part of its core *raison d'être* as well as identifying other activities that will strengthen the society in future years.

Visions and Aspirations of the BDS are outlined in Section 2. The Committee Structure is given in Section 3,

Section 4 summarises the Events that BDS organises while Section 5 covers the various Communications initiatives that BDS has adopted and Section 6 outlines the work relating to Education.

2. VISION AND ASPIRATIONS

The British Dam Society wants to:

- (i) be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD);
- (ii) encourage students and young professionals in a career of dams and reservoirs;
- (iii) be a body of people with interest in and authority on dam-related issues;
- (iv) monitor and contribute to the agenda on the provision of technical guidance and wider research on dams for the UK;
- (v) liaise in the UK with the Environment Agency, Defra and other interested governmental bodies associated with dams and reservoirs in the UK;
- (vi) inform the membership on national and international issues and practice concerning dams and reservoirs;
- (vii) promote public understanding of the importance of dams and reservoirs within the infrastructure of society;
- (viii) monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;
- (ix) be highly regarded within ICOLD such that it can strongly influence ICOLD's agenda;
- (x) be a growing and vibrant society.

3. COMMITTEE STRUCTURE

3.1. Description

The governing body of the Society (i.e. the *Main Committee*) consists of the Chairman, six ex-officio members, twelve elected members, up to six members nominated by the Chairman and up to three members nominated by the ICE. Each Main Committee member also sits upon one of four sub-committees, i.e. the *Finance & General Purposes Sub-Committee (F&GP)*; *Events Sub-Committee*; *Communications Sub-Committee* and *Education Sub-Committee*.

Elected members serve for a three year term, with four standing down each year. Such members are not eligible for re-election to the committee until a full year has passed.

The biennial conference is a special event, which requires the involvement of many people, some of whom are not *Main Committee* members. The *Conference Organising Committee* therefore operates outside the sub-committee structure, however because of its fundamental importance to the success of the Society, the Conference Organiser sits on the *F&GP Sub-Committee*.

The purpose of each Sub-Committee is as follows:

- *Finance & General Purposes Sub-Committee* - to organise the business of the BDS, to develop effective strategies for the future, to oversee the arrangements for the biennial conference, to deal with financial matters, such as budget, expenditure and membership subscriptions and to liaise with ICOLD.
- *Events Sub-Committee* - to arrange technical meetings and site visits in London and the Regions, and to organise regular events, such as the Supervising Engineers' Forum and technical seminars.
- *Communications Sub-Committee* - to manage the publication of "Dams & Reservoirs", to manage, update and extend the web site and to publicise and manage the competitions.
- *Education Sub-Committee* - To promote BDS and the role of dams and reservoirs in schools and universities.

Each sub-committee will be populated by champions responsible for achieving specific assigned tasks or targets, with the help of others within that sub-committee.

MAIN COMMITTEE			
Finance & General Purposes	Events	Communications	Education
Chairman	London Meetings Organiser	Web-site Manager	Water Panel Representative
Vice Chairman/ Treasurer	Regional Meetings Organiser	Dams & Reservoirs Editor	Schools Coordinator
Past Chairman	Supervising Engineers' Forum Organiser	Competitions Organiser	Universities Coordinator
Technical Secretary	Technical Visits Organiser	Publicity Coordinator	
BDS Secretary			
Conference Organiser			
ICOLD Past Vice President			

Conference Organising Committee							
Conference Organiser	BDS Technical Secretary	BDS Vice Chairman/ Treasurer	Web-site Manager	Technical Visits Organiser	Exhibition Organiser	Social Events Organiser	Local Contact(s)

The roles, tasks and targets of sub-Committee members can be summarised as follows:

Role	Tasks
Chairman	Chairs Main Committee meetings and events; develops BDS's strategy; coordinates activities of sub-committees. Attends ICOLD executive meetings and acts as voting representative.
Vice Chairman / Treasurer	Chairs F&GP. Liaises with ICE regarding income and expenditure; sets budget and oversee financial performance. Monitors subscriptions. Deputises for Chairman whenever required.
Past Chairman	Advises Chairman and provides continuity with past Committee actions.
Technical Secretary	Co-ordinates technical affairs of Society. Screens all papers to be published by ICOLD, BDS etc. Monitors ICOLD draft bulletins and organises their review, as necessary. Advises F&GP on the day to day running of the Society. Edits biennial Conference proceedings and liaises with authors and publisher. Arranges judging panel for Bateman Prize.
BDS Secretary	(ICE post) Attends to all administrative matters in connection with the Society. Liaises closely with the Chairman, Technical Secretary and F&GP.
Conference Organiser	Organises biennial conference (even years) at chosen venue, co-opts members to organising committee, makes arrangements for accommodation, facilities, exhibition, social itinerary, technical visits, etc.
ICOLD Past Vice President	Liaises with ICOLD senior executives and UK representatives of ICOLD/EurCOLD Technical Committees; prepares written annual report.
London Meetings Organiser	Arranges presenters for evening meetings in London. Liaises closely with Regional Meetings Organiser and ICE Associated Societies. Arranges for events to be streamed live on the web.
Regional Meetings Organiser	Arranges presenters for evening meetings outside London. Liaises closely with London Meetings Organiser and ICE Associated Societies.
Supervising Engineers' Forum Organiser	Organises biennial forum (odd years), including advance bookings for future events.
Technical Visits Organiser	Arranges technical visits to dams and reservoirs of particular interest. Coordinates details with dam-owners and advises BDS membership.
Seminar Organiser	Organises ad-hoc seminars/technical meetings on topical subjects.
Web-site Manager	Manages and develops web site, monitors site visits, adds items and updates calendar on a regular basis.
Dams & Reservoirs Editor	Requests, reviews and edits articles; liaises with publisher to produce three to four issues each year.
Competitions Organiser	Organises BDS Prize competition for young professionals, Student Competition and Photography Competition. Includes publicity, forming judging panels and liaison with entrants.

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Role	Tasks
Schools Coordinator	Ensures appropriate material for the National Curriculum is made available to teachers; arranges for publicity of this material to teachers.
Universities Coordinator	Encourages links with universities; arranges presentations; provides contacts for Student Competition publicity
Publicity Coordinator	Promotes knowledge of dams and reservoirs to the general public
ICE Associated Societies link	Promotes BDS to other ICE professionals
Water Panel Representative	Attend meetings of ICE Water Board. Supports initiatives and prepares written annual report to feed back information to Society.
Reservoirs Committee Representative	Attends meetings. Feeds back information to BDS regarding current concerns and standards.
Reservoir Safety Advisory Group Representative	Attends meetings. Feeds back information to BDS regarding current concerns and standards.

3.2. Key Performance Indicators

Chairman	Attends all Main Committee meetings, ICOLD and BDS events.
Vice Chairman / Treasurer	Financial budget and annual accounts agreed by following AGM.
Technical Secretary	BDS compliance with Constitution; timely minutes of F&GP meetings; Conference proceedings
Conference Organiser	Successful biennial Conference. Outturn at least break even
ICOLD Vice President	Annual written report on activities.
London Meetings Organiser	Programme =/>18 months ahead with =/> 5 meetings per year.
Regional Meetings Organiser	>2 meetings per year (with ICE) and 2 per year (with others).
Supervising Engineers' Forum Organiser	Successful biennial forum. Outturn at least break even
Technical Visits Organiser	>2 technical visits per year.
Seminar Organiser	At least one special event every two years.
Web-site Manager	Website kept up-to-date. E-mails issued advertising BDS events.
Dams & Reservoirs Editor	Three to four issues each year of relevant papers/articles
Competitions Organiser	Healthy competition; decisions on winners produced on time
Schools Coordinator	Dams and reservoirs featured in geography lessons
Universities Coordinator	Student involvement in BDS activities; lectures at universities
Publicity Coordinator	BDS publicity on dams and reservoirs at reservoir visitor centres
ICE Associated Societies link	Articles for ICE Associated Societies Newsletter
Water Panel Representative	Feedback from ICE Water Panel meetings
Reservoirs Committee Representative	Feedback from Reservoirs Committee meetings
Reservoir Safety Advisory Group Representative	Feedback from Reservoirs Safety Advisory Group meetings

4. EVENTS

4.1. BDS Conference

4.1.1. Aspirations covered

- be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD); encourage students and young professionals in a career of dams and reservoirs;
- be a body of people with interest in and authority on dam-related issues;
- monitor and contribute to the agenda on the provision of technical guidance and wider research on dams for the UK;
- liaise in the UK with the Environment Agency, Defra and other interested governmental bodies associated with dams and reservoirs in the UK;
- inform the membership on national and international issues and practice concerning dams and reservoirs;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;
- be a growing and vibrant society.

4.1.2. Description

A major conference held every two years in a different location, based on a university campus. It comprises 2½ days of presentations and site visits with an optional pre-conference visit and activities for accompanying persons. Proceedings have been published as a bound volume in advance of the conference.

4.1.3. Cost

The conference should be at least self-financing.

4.1.4. Programme

Held at either the beginning (June) or end (September) of university summer holidays in alternate (even) years. Planning must commence at least 18 months in advance of the conference.

4.1.5. Actions

- Each conference to have a stated broad theme and brief with a programme and subjects to address the theme;
- Conference literature to include environmental and sociological aspects to encourage a wider participation of professionals;
- Relationship and timing with other ICOLD national committees and other Associated Society events to be considered

4.1.6. Key Performance Indicators

- Sufficient papers submitted of suitable quality.
- Wide range of subjects and geographical spread covered within the theme.
- Involvement of disciplines other than civil engineering.

- Suitable accommodation and lecture theatre facilities
- No financial loss to BDS

4.2. Supervising Engineers' Forum

4.2.1. Aspirations covered

- be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD); encourage students and young professionals in a career of dams and reservoirs;
- monitor and contribute to the agenda on the provision of technical guidance and wider research on dams for the UK;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;
- be a growing and vibrant society.

4.2.2. Description

A one-day conference held every two (odd) years, in 2011 at the National Motor Cycle Museum, Birmingham. It is specifically aimed at Supervising Engineers and those wishing to become Supervising Engineers. It includes a forum of general discussion with a panel of experienced engineers.

4.2.3. Cost

The forum should be at least self-financing.

4.2.4. Programme

Held at in April in alternate (odd) years. Planning must commence at least 12 months in advance of the conference.

4.2.5. Actions

- Confirm venue, arrange suitable speakers, presenter and session chairmen.
- Arrange appropriate publicity
- Prepare any necessary handouts
- Suitable papers to be published in Dams and Reservoirs.

4.2.6. Key Performance Indicators

- Forum to have a stated objective relevant to Supervising Engineers.
- The programme and topic subjects to address the theme and achieve objective
- No financial loss to BDS

4.3. London and Regional Meetings and Visits

4.3.1. Aspirations covered

- be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD); encourage students and young professionals in a career of dams and reservoirs;

- be a body of people with interest in and authority on dam-related issues;
- monitor and contribute to the agenda on the provision of technical guidance and wider research on dams for the UK;
- inform the membership on national and international issues and practice concerning dams and reservoirs;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;
- be a growing and vibrant society.

4.3.2. Description

Technical meetings of one or more papers on a specific subject, held at ICE or a regional centre. Visits to be arranged on an opportunistic basis, as sites of new or remedial works become available to visit.

4.3.3. Cost

Costs of room hire and refreshments for Technical meetings at ICE are covered by an annual Service Level Agreement with ICE. Costs of the same in regions should be covered by the host. For visits there should be no specific costs to be borne by BDS.

4.3.4. Programme

Technical meetings are held in London in January, March, May, October and November. Regional meetings and visits are held as and when the opportunities arise

4.3.5. Actions

- A programme of regional and London meetings to be prepared well in advance.
- Alternative formats to be considered for some meetings (e.g. debates; controversial issues)
- Consider introduction of more technically demanding subject matter for some meetings
- Encourage meetings to hear of developments in other areas (closer liaison with SECED, BGS, BTS, BHS, etc.)
- Encourage meetings addressed by environmental and sociological specialists.
- Ensure as many meetings as possible are streamed on the web.
- Ensure flyer is published at least on month in advance of the meeting.
- Liaise with proposed speakers to ensure quality and that the content of presentations is relevant.

4.3.6. Key Performance Indicators

- Wide range of topical subjects covered.
- Good attendance of members in person and via web (where possible).

4.4. Seminars

4.4.1. Aspirations covered

- be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD);
- encourage students and young professionals in a career of dams and reservoirs;
- inform the membership on national and international issues and practice concerning dams and reservoirs;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;

4.4.2. Description

Seminars are proposed on topics of importance and relevance to reservoirs. These seminars will promote good practice and introduce innovative ideas and techniques. The Events sub-committee is tasked to arrange seminars preferably at least once every two years and more frequently if suitable topics are identified. Detailed arrangements for seminars will be carried out by an individual assisted, if required, by a small sub-committee.

4.4.3. Cost Estimate

Seminars should be self-financing or net earners of revenue for the Society. At-risk expenditure will be required to organise and arrange the seminars, which will be made available from general funds on the acceptance of the seminar proposal by the Committee.

4.4.4. Programme for Implementation

As the need and opportunity arises.

4.4.5. Actions

- Organisers need to be aware of the needs of members for dissemination of new information, and the opportunities that arise from, for example, recently published research.
- Liaise with other ICE Associated Societies to ascertain topics of common interest.

4.4.6. Key Performance Indicators

- Topicality and relevance of the subject
- Seminar attendance
- Financial outcome of seminar

4.5. International Lecture

4.5.1. Aspirations covered

- be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD);
- encourage students and young professionals in a career of dams and reservoirs;
- be a body of people with interest in and authority on dam-related issues;

- inform the membership on national and international issues and practice concerning dams and reservoirs;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;
- be highly regarded within ICOLD such that it can strongly influence ICOLD's agenda;
- be a growing and vibrant society.

4.5.2. Description

An international stature lecture to be arranged biennially (non conference years) on a subject relevant to reservoirs. The lecture will be open to non-members. A published version of the lecture will be produced for Dams and Reservoirs. The lecture will provide an international counterpoint to the Geoffrey Binnie lecture.

4.5.3. Costs

Costs will be booking of suitable lecture theatre, travel and accommodation costs of the lecturer and publicity materials, which will be budgeted for within the annual accounts.

4.5.4. Programme for Implementation

Start to search for a suitable lecturer at least 12 months prior to the proposed lecture. Ensure the event is publicised at least four months in advance.

4.5.5. Actions

- Organisers need to be aware of suitable speakers from attendance at ICOLD events.

4.5.6. Key Performance Indicators

- Lecture attendance
- Lecture quality
- Stature of lecturer
- Quality of written version

5. COMMUNICATIONS

5.1. Web

5.1.1. Aspirations covered

- be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD);
- encourage students and young professionals in a career of dams and reservoirs;
- monitor and contribute to the agenda on the provision of technical guidance and wider research on dams for the UK;
- inform the membership on national and international issues and practice concerning dams and reservoirs;
- promote public understanding of the importance of dams and reservoirs within the infrastructure of society;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;
- be highly regarded within ICOLD such that it can strongly influence ICOLD's agenda;
- be a growing and vibrant society.

5.1.2. Description

The BDS website was established in 2001 and has grown steadily in size and content ever since. Access to the site (in terms of Sessions recorded) continues to grow.

As with any website, the site is a living medium that requires maintenance, updating and modification in order to provide the most appropriate service to the intended users. The following table identifies areas that the BDS has been particularly active in.

<i>Web Area & Content</i>	<i>Objective</i>
Student zone	To encourage greater participation and interest in dams from students, (leading to new engineers within the profession) through the provision of web content of direct relevance and interest to students.
BDS Members area	To allow members access to information and material not available freely to the general public
Promotion of technical events	A listing within the Meetings & Events section of technical events - and subsequent reminder emails promoting such events.
Provision of up to date technical information	Up-to-date information on and links to technical issues, including recent, planned and ongoing R&D.
Web streaming	Publicising and arranging for meetings held at ICE to be streamed live on the web for interactive feedback.
Monitoring web use and adaptation	To monitor how the BDS website is used and to adapt structure, content and services to maximise benefits to target audience
Maintenance / updates	To continually adapt and improve services and tools as needs arise and technology changes.

Web Site development and maintenance falls within the remit of the Communications Sub-Committee, who will develop and agree appropriate action plans and will manage the web site initiative with regular reports to the main and F&GP Sub-Committee.

5.1.3. Costs

Costs for specific enhancements are considered by the F&GP Sub-committee as and when the need arises.

Ongoing maintenance costs are covered in the BDS annual budget.

5.1.4. Programme

Ongoing

5.1.5. Actions

- Website manager to estimate competitive costs and timings of proposed enhancements/updates
- Consider how to routinely provide technical meeting content online for wider membership access, needing to overcome any technical limitations / opportunities (format, extent etc). Plus concerns from authors over confidentiality and copying of material.
- Consider how to best structure the site and provide search facilities that allow users to quickly access the information they require.
- As BDS is an Associated Society of the ICE, how best to interact with and access ICE held information, e.g. - relating to promotion of technical events, BDS membership, use of ICE email shots etc.
- As BDS forms the UK branch of ICOLD, how best to interact with, access and promote information held by ICOLD.

5.1.6. Key Performance Indicators

- Number of sessions (total and monthly)
- Timeliness of incorporating new information
- Range of information available
- Participants using web-streaming of meetings

5.2. “Dams and Reservoirs” Publication

5.2.1. Aspirations covered

- be a body of people with interest in and authority on dam-related issues;
- monitor and contribute to the agenda on the provision of technical guidance and wider research on dams for the UK;
- promote public understanding of the importance of dams and reservoirs within the infrastructure of society;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;
- be a growing and vibrant society.

5.2.2. *Description*

A journal published by Thomas Telford three to four times per year using material supplied by BDS.

5.2.3. *Costs*

Costs are set out in a commercial agreement with Thomas Telford Limited with a fixed cost for up to 400 copies and a sliding scale for additional copies published. The agreement was signed in 2008 and will run until at least December 2012.

5.2.4. *Programme*

Essential to provide material on time to Thomas Telford to meet publication dates.

5.2.5. *Actions*

- Chase contributors to ensure material is available, reviewed and edited in time to meet publication deadlines
- Review content, presentation and frequency to optimise effectiveness
- Peer review of papers to be clearly stated
- Consider themed issues with commissioned papers
- Consider publishing key ICOLD papers to ensure wider audience within the BDS

5.2.6. *Key Performance Indicators*

- Continuation of publishing agreement with Thomas Telford
- Three to four quality journals produced each year
- Sales of the journal by Thomas Telford to non-BDS members

5.3. **The Bateman Award (Best paper prize)**

5.3.1. *Aspirations covered*

- be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD);
- be a body of people with interest in and authority on dam-related issues;
- monitor and contribute to the agenda on the provision of technical guidance and wider research on dams for the UK;
- inform the membership on national and international issues and practice concerning dams and reservoirs;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;

5.3.2. *Description*

In 2000 the BDS instituted an award to the authors of a paper, which had a significant contribution to dam engineering or reservoir development. The award is named after the illustrious Victorian dam engineer, John Frederick La Trobe Bateman. It consists of a framed portrait of Bateman with an aerial photograph of the dams in the Longendale Valley, which he designed.

The purpose of the award is to reward excellence and bring the paper to wider attention. The biennial award is given to all authors of a paper where at least one of the authors is a member of the BDS.

The selection of eligible papers and judging of the award is carried out by a small sub-committee which sets its own criteria. Selection is not on the basis of application or nomination. The sub-committee is required to have a policy to prevent conflicts of interests and lobbying.

5.3.3. Costs

Only the cost of the name plaques for several years as a number of framed portraits were purchased some years ago.

5.3.4. Programme

The Technical Secretary convenes a panel of three BDS Committee members in the autumn of even (Conference) years to consider papers published in the preceding two years. The selected winner is advised to the F&GP Committee at its January meeting.

5.3.5. Actions

- Technical Secretary to convene panel of members, ensuring no conflict of interests, and agree judging criteria.
- Short list identified by each panel member.
- Panel members vote on combined short list.
- Winner advised to F&GP committee.

5.3.6. Key Performance Indicators

- Quality of papers selected
- Relevance to members
- Innovation

5.4. BDS Prize (Young person's prize)

5.4.1. Aspirations covered

- encourage students and young professionals in a career of dams and reservoirs;
- be a body of people with interest in and authority on dam-related issues;
- monitor and contribute towards promoting best practice in all aspects of the planning, development, maintenance and operation of dams and reservoirs;
- be a growing and vibrant society.

5.4.2. Description

Since 1984, the BDS has made an award for papers on topics in the field of dam engineering relating to experience in research, design, construction or supervision of dams. The competition is directed at young engineers who are under the age of 35. There must only be one author.

Candidates are invited to submit synopses from which 4 or 5 papers are selected for presentation at a meeting of the BDS. The candidates submit a written paper of not more than 2,500 words and are given 10 to 15 minutes to present them. A further 5 minutes is allocated for each candidate to answer questions from the audience.

The selection of papers to be presented and judging of the award is carried out by a small sub-committee who judge on both the written and oral presentations. The judging panel should not contain people who have been involved in the works described in the papers or are work colleagues of candidates.

5.4.3. Cost Estimate

The BDS Prize is traditionally partly sponsored by the outgoing BDS Chairman's organisation. The value of the prizes is agreed with the Chairman and the F&GP Sub-Committee. As an indication, for 2010 the first prize was £1000 with second place prize of £400 and a third place prize of £200. The prize was funded 50/50 by the BDS and the outgoing Chairman's organisation. The cost to BDS was therefore £800 in that year.

5.4.4. Programme

The BDS Prize is organised by a sub-committee, which is set up a year in advance of the event. Changes in personnel on the sub-committee may be needed to avoid conflicts of interest once entries have been submitted. The competition normally takes place in the November of odd numbered years.

5.4.5. Actions

- Competitions Organiser to convene panel of members, ensuring no conflict of interests, and agree judging criteria.
- Panel members vote on each paper submitted.
- Three or four highest-scoring authors invited to present their papers at a BDS meeting in London.
- Arrange for short talk while voting on presentations takes place.
- Panel members vote on presentations and highest total score identifies the winner.
- BDS Chairman announces winners and awards prizes at that meeting.

5.4.6. Key Performance Indicators

- Number of entries
- Quality of papers and presentations by selected authors
- Innovation and relevance

5.5. Student Prize

5.5.1. Aspirations covered

- encourage students and young professionals in a career of dams and reservoirs;
- promote public understanding of the importance of dams and reservoirs within the infrastructure of society;
- be a growing and vibrant society.

5.5.2. *Description*

An annual competition to promote interest in dams and reservoirs among university students.

5.5.3. *Cost Estimate*

The values of the prizes are agreed by the BDS committee. The Student Prize may typically be an all (reasonable) expenses paid trip to an appropriate conference or site concerning dams and reservoirs. In 2010 the runners-up were awarded cash prizes of £200 and £100.

5.5.4. *Programme*

The Student Prize is timed so that entry is available to students finishing in the summer term and those starting in the Autumn term.

5.5.5. *Actions*

- Competitions Organiser to convene panel of members and agree judging criteria.
- Panel members vote on each paper submitted and highest score identifies winner
- BDS Chairman writes to winner and runners up with their prizes.

5.5.6. *Key Performance Indicators*

- Number of entries
- Quality of papers authors
- Understanding and relevance

5.6. Photography Prize

5.6.1. *Aspirations covered*

- encourage students and young professionals in a career of dams and reservoirs;
- be a body of people with interest in and authority on dam-related issues;
- promote public understanding of the importance of dams and reservoirs within the infrastructure of society;
- be a growing and vibrant society.

5.6.2. *Description*

Open to members of the BDS and ICE as well as Engineering students. Photographers are entitled to submit two photographs on the topic of Dams & Reservoirs.

5.6.3. *Cost Estimate*

The values of the prizes are agreed by the BDS committee. In 2010 the first prize was £200, the second prize was £100 and the third prize was £50.

5.6.4. *Programme*

The Photography Prize is timed so that photographs can be taken during the summer and the winning photographs shown at an autumn BDS meeting.

5.6.5. *Actions*

- Competitions Organiser to convene panel of members with no conflicts of interest and agree judging criteria.
- Panel members vote on each photograph submitted and highest score identifies winner
- Winners announced by the BDS Chairman at the autumn meeting when the submitted photographs will be shown

5.6.6. *Key Performance Indicators*

- Number of entries
- Quality of photographs

5.7. Publicity - public

5.7.1. *Aspirations covered*

- encourage students and young professionals in a career of dams and reservoirs;
- promote public understanding of the importance of dams and reservoirs within the infrastructure of society;

5.7.2. *Description*

Information for members of the general public provided at appropriate locations in order to educate and inform about dams and reservoirs.

5.7.3. *Costs*

Cost of printing and distributing brochures – one off initial set up cost, possible reprint costs if demand is high enough.

5.7.4. *Programme*

Brochure completed, printed and distributed to at least 25 visitor centres by the end of 2011.

5.7.5. *Actions*

- Prepare a brochure explaining the construction, use and benefits of dams.
- Liaise with reservoir owners to ensure that brochures are available in visitors' centres.
- Explore possibility of BDS providing information boards at key sites

5.7.6. *Key Performance Indicators*

- Increased access of BDS website by general public
- Increased demand for brochures
- Agreement to provision of information boards

5.8. Publicity – ICE

5.8.1. *Aspirations covered*

- be a means for professionals involved with dams to meet and exchange ideas, views and experience and so contribute to their Continuing Professional Development (CPD);

- encourage students and young professionals in a career of dams and reservoirs;
- promote public understanding of the importance of dams and reservoirs within the infrastructure of society;
- be a growing and vibrant society.

5.8.2. Description

Provide information regarding BDS to other professional civil engineers via the ICE's Associated Societies' Newsletter.

5.8.3. Costs

Nil – covered by ICE.

5.8.4. Programme

Contributions prepared in time to meet ICE publisher's deadlines.

5.8.5. Actions

- Liaise with all BDS sub-committees to ensure that all relevant BDS news is known.
- Liaise with ICE regarding submission deadlines.
- Prepare article according to ICE guidelines.
- Submit article after a review by BDS Chairman.

5.8.6. Key Performance Indicators

- Articles to be submitted to ICE on time.
- Articles to clearly explain BDS's activities to ICE members not involved in dams or reservoirs

6. EDUCATION

6.1. Schools

6.1.1. Aspirations covered

- encourage students and young professionals in a career of dams and reservoirs;
- promote public understanding of the importance of dams and reservoirs within the infrastructure of society;

6.1.2. Description

To ensure that schoolchildren can obtain information on dams and reservoirs as part of their school work, by providing factual and unbiased material that can be used in subjects such as geography in the National Curriculum.

Once this information is available it is essential that teachers know of it and can readily access the material.

6.1.3. Costs

Professional assistance is required, which is likely to cost in the order of £20,000.

6.1.4. Programme

Material produced, available and publicised to teachers by end of December 2011.

6.1.5. Actions

- Engage professional assistance to prepare material suitable for use in the National Curriculum (Geography);
- Upload all necessary material to the BDS website and keep it current;
- Publicise the availability of such material to teachers and teaching bodies;
- Respond to requests for further information or teaching materials.

6.1.6. Key Performance Indicators

- Material being used in 100 schools by the end of the 2012/13 school year
- Requests for updates and further information received by BDS from teachers and educational establishments.

6.2. Universities

6.2.1. Aspirations covered

- encourage students and young professionals in a career of dams and reservoirs;
- promote public understanding of the importance of dams and reservoirs within the infrastructure of society;
- be a growing and vibrant society.

6.2.2. Description

Establishment of links to universities to encourage greater involvement with BDS activities

6.2.3. Costs

None except possibly for BDS members' travel

6.2.4. Programme

Ongoing, but especially required in the autumn term as new students start university.

6.2.5. Actions

- Foster links with appropriate university departments and encourage the universities to become corporate members of BDS;
- Offer guest lectures on dams and reservoirs;
- Encourage participation in competitions;
- Ensure universities are aware of the current BDS programme of meetings and events.

6.2.6. Key Performance Indicators

- Active participation by students in BDS activities
- Increased number of students choosing careers in roles involving dams and reservoirs