

Björn Brandberg
Architect-Planner, Civil Engineer
Water, Sanitation and Hygiene Development Adviser

CURRICULUM VITAE

Name: Brandberg, Björn Olof
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E-mail: bjornbrandberg@gmail.com
Nationality: Swedish
Date of Birth: 6 August 1942
Marital status: Married with 5 grown-up children

Present Positions:

1. Director and consulting adviser on technology and implementation of low-cost WASH systems for Assiste Internacional LDA in Mozambique.
2. Partner, board member and technical adviser to LCS ProMotion Int AB, Grästorp, Sweden

Languages:

English	excellent
Portuguese	excellent
French	working knowledge
Spanish	working knowledge
German	working knowledge
Swedish	native language

Education:

Architect MSc, Housing and Development Planning. Chalmers University of Technology, Gothenburg, Sweden, 1978

Civil Engineer, Structures, Gothenburg Technical College TGG I, Gothenburg, Sweden 1966

Diploma in Biology with distinction, College of Further Education, Trollhättan, Sweden, 1963

KEY QUALIFICATIONS

Björn Brandberg is an international architect, civil engineer and sanitation and development adviser with good language skills.

B Brandberg has over 30 years of professional experience, principally in sanitation programmes. Since 1989 he has been an independent consultant working for and in co-operation with major international organisations and consultancy firms including World Bank, UNICEF, UNDP, WHO, UNCHS, UNHCR, UNOPS, Sida, DFID, NORAD, WaterAid, WELL, Habitat for Humanity, Stockholm Environment Institute, AustralCOWI, Carl Bro International, COWIconsult, KrügerConsult, Louis Berger etc in over 20 different countries in Africa and Asia with focus on southern and eastern Africa and Mozambique. He has 10 years experience as programme manager in low-cost sanitation programmes, of which 6 as national coordinator of the latrine building programme in Mozambique and 4 years co-ordinating the national low-cost sanitation programme in Malawi and 15 years as an independent consultant through SBI Consulting and Supplies PTY Ltd and Assiste Internacional Lda, often as the leader of a team. Years 2004-2007 he was the Director for Lutheran Development Service (NGO) of the Evangelical Lutheran Church of Southern Africa-Eastern Diocese (LDS), in Swaziland.

B Brandberg is a member of the WHO Collaborative Council working-group for Sanitation Promotion and RedR—Registered Engineers for Disaster Relief. He is an adviser to LCS ProMotion, a non-profit supply company for low cost sanitation material based in Sweden. He is also the principal developer of the SanPlat System for lowest cost environmental sanitation and the author of the handbook *Latrine Building*. The SanPlat System has gained acceptance all over Africa where some 4-5 million SanPlat latrines have been built in over 20 countries. In Maputo (Mozambique), where the peri urban sanplat system was born, sanitation coverage now is 100%. In Malawi, where the rural version of the SanPlat system was developed, the country is maintaining a leading role with the best progress of improved sanitation south of Sahara.

PROFESSIONAL EXPERIENCE

Principal tasks

- Director and Senior Adviser on Low-Cost Sanitation and Housing for Assiste Internacional Lda, Mozambique
- Senior Adviser on Low-Cost Sanitation SABASE Trading in South Africa and LCS Promotion International AB in Sweden
- Voluntary research and development on poverty eradication in Swaziland in cooperation with Africa Leadership Partners

Specific tasks (1989 - present)

Mozambique: Louis Berger SAS/Millennium Challenge Account – 2009-2010 ongoing

Feasibility study and preparation of sanitation programme for the peri-urban areas for the cities of Pemba, Nampula and Quelimane

Mozambique: AustralCOWI/PARPA III– 2009

Policy note on environmental sanitation for the 3rd Mozambican poverty alleviation programme summarizing principal priorities, challenges and recommendations

Mozambique: Housing for Humanity – 2009

Assessment of cost and technical feasibility of housing project for orphans and vulnerable households in the Boane and Chimoio districts

Mozambique: PROSAM/WHO/Chibuto Millennium Village - 2009

1. Supervision and development of an integrated approach for WASH development in the Millennium Village (MV) based on the marrying of the CLTS and PHAST methods and Community Negotiations
2. Strategic development of water supply in the MV.

Mozambique: Assiste Internacional Lda - 2008

Development work on meeting the MDG goals for sanitation based on Community Led Total Sanitation and Community Negotiations

Lesotho and Swaziland: WaterAid - 2008

Assessment (Scoping study) of possibilities of WaterAid to enter as I-NGO or partner organization in Lesotho and Swaziland to assist with water, sanitation and hygiene promotion (WASH) in the two countries

Mozambique: Village Reach (American I-NGO) 2008 - Ongoing

Technical assistance in project preparation for rural sanitation Mozambique, pilot programme using the Community Led Total Sanitation Approach (CLTS) adapted to the requirements of the national Water Policy and the Millennium Development Goals (MDGs)

Mozambique: Impacto/The National Directorate of Water - 2008

Technical assistance in setting up sanitation programme using local casting yards and community based sanitation promotion in three peri-urban areas in Maputo to cater for upgrading existing latrines and assisting new households.

Mozambique: National Directorate of Water/UNICEF - 2008

Strategy development for rural sanitation including revision of sanitation manuals and facilitation of a National Rural Sanitation Meeting.

Mozambique: PROSAM - 2007

Development support in starting up a new NGO, with focus on Water, Sanitation and environmental protection

Swaziland: Lutheran Church of Southern Africa - Eastern Diocese - 2004-2007

Management support to Lutheran Development Service as director, applying a holistic approach to development and emergency support including Microfinance, Water and Sanitation. Environmental Sanitation, HIV and AIDS, Gender and Training

Swaziland: Lutheran Church of Southern Africa - 2006

Development of housing and commercial areas in Lavumisa

Swaziland: SWADE/LUSIP - 2006

Development of a strategic plan for latrine building and hygiene promotion for the LUSIP areas in the Swazi Lowveld.

Mozambique: World Bank - 2005

Advisory support to the Municipality of Maputo on revitalizing the Maputo sanitation and hygiene promotion programme and formulate framework for the next 10 years.

Swaziland: DFID/Ministry of Health and Social welfare - 2004 ongoing

Preparation Swaziland National Sanitation Manual together with Lang Mitchell and Associates for DFID/Ministry of Health and Social welfare with focus on low income and vulnerable communities.

United Kingdom: Oxfam UK - 2004

Evaluation and preparation of alternative technologies for emergency sanitation in developing countries.

Senegal, Togo and Burkina Faso: Swedish Environmental Institute (SEI) - 2003

Evaluation of ecological sanitation research projects in Senegal and Togo, including a follow up conference on findings from similar projects carried out by CREPA in francophone West Africa for the Stockholm Environment Institute (SEI) with the object of developing sustainable ecological sanitation systems for rural and peri-urban communities.

Swaziland: Lutheran Church, Mbabane Parish - 2003

Project proposal for an HIV-Aids Clinic and Training Centre in the Motshane Circuit aiming at training of trainers in managing home based care and extended survival for HIV-Aids patients. Assessment of site possibilities and site plan and design of buildings.

Swaziland: Africa Leadership Partners/Likhaya - 2003 (ongoing)

Design, costing and supervision of the construction of homes for orphans with no alternative care using alternative building technologies. Assessment of site possibilities and site plan and design of buildings.

Malawi UNICEF / Ministry of Education 2003

Evaluation of the ongoing Strategic School Sanitation and Hygiene Promotion project (SSHP) and revision of designs for latrines, urinals and hand washing facilities for schools including outline for how the school sanitation programme can be extended into targeted rural communities.

Angola: Development Workshop 2002

Internal evaluation of sanitation programme for low-income settlements in peri-urban Luanda regarding management issues, technical options, coverage, social mobilization and hygiene education, monitoring capacity and a vision for the future.

Swaziland: Lutheran Evangelical Church of Southern Africa 2002

Design of training centre with accommodation and dining facilities in Mbabane for the Lutheran Training Centre - Eastern Diocese. Assessment of site possibilities and site plan and design of buildings.

Madagascar: UNICEF, World Bank and WaterAid 2002

Training support to the national sanitation programme on low cost sanitation.

Malawi: UNICEF 2001

Strategic Sanitation and Hygiene Promotion for Schools. Development of catalogue of technology options for latrines, urinals and hand washing facilities and participatory training of programme staff in implementation of school sanitation programmes.

Swaziland: Msuduza Integrated Sanitation Project 2001

Preparation of tender proposal for Msuduza Integrated Sanitation Project, Mbabane for a joint venture with Mbabane City Council, John Wesley Methodist Church, Mater Dolorosa Catholic Church the Salvation Army, Africa Leadership Partners and SBI Consulting

Swaziland: John Wesley Methodist Church and School, 2001

Community based participatory sanitation programme for Msunduza peri-urban area in Mbabane Swaziland. A joint community, school and church based project aiming at participatory development of sanitary conditions, hygiene practices and health awareness
Preparation of physical master plan for a Rural School and Church community in Dlangeni including design and production support for the first building.
Design and participatory construction management of neighbourhood church and teachers houses in Msunduza Mbabane.

Swaziland: de Silva Family Trust Fund, 2000

Proposal for commercial centre and housing compound. Assessment of site possibilities and site plan and design of buildings.

Mozambique: Water Aid, 2000

Facilitation of workshop for private contractors and development of design of public and institutional latrines.

Mozambique: Water Aid, 2000

Co-facilitation of workshop on sanitation development for the Niassa Province

Angola: UNICEF, 1999

Strategy development for a National Environmental Sanitation Programme.

Mozambique: UNICEF/City of Nampula, 1999

Preparation of a peri-urban cholera prevention programme.

Mozambique/Royal Embassy of the Netherlands, 1999

Team leader in the evaluation of ongoing environmental management programme in the Nampula province with emphasis on the urban and peri-urban situation.

Kenya, Malawi and Mozambique: SIDA/Geoscope, 1999

Sanitation specialist in the joint assessment of the UNDP/World Bank Regional Water and Sanitation Programme for Sida (Sweden), CIDA (Canada) and the Norwegian Ministry of Foreign Affairs.

Malawi: WELL/DFID/UNICEF, 1999

Evaluation and feasibility study for a school focused hygiene education and sanitation promotion programme

Swaziland: Mananga College, 1998

Project Coordinator for refurbishment works for the Mananga College.

Swaziland: Regional Integrated Development and Management Centre, 1998

Project Coordinator for construction of a new centre at Mananga Swaziland

Angola: SIDA/PRUALB, 1998

Supervision and management support to the Sanitation Component of the World Bank funded project Lobito-Benguela Urban Environmental rehabilitation project.

Mozambique: UNOPS/UNDP/PNSBC, 1997

Development of Alternative Low-Cost Sanitation Technologies. Revision, research and development of technical options for sustainable and decentralised sanitation management for the National Low Cost Sanitation Programme (PNSBC) in Mozambique.

Nigeria, Burkina Faso and Guinea: UNICEF/Sida, 1997

Key facilitator in three UNICEF Regional workshops on promotion and implementation of low cost sanitation programmes for 18 countries in West Africa plus Haiti and Comoro Islands featuring especially the SanPlat system

Burkina Faso: UNICEF, 1997

Assessment of ongoing low-cost sanitation programme and preparation of a regional low cost sanitation Workshop for Francophone countries in West Africa.

Niger, UNICEF/Government of Holland: 1997

Assessment of ongoing low-cost sanitation programme.

Nigeria, UNICEF-WCARO/Sida: 1996

Resource person in a UNICEF Regional seminar on promotion of low cost sanitation

India, Sida/WEDC: 1996

Presentation and demonstration of Affordable Sanitation for Rural India (Analysis, technologies and strategies) at the 22nd Water and Sanitation Conference in New Delhi, India 9-13 Sept 1996.

Swaziland, UNDP/WFP: 1996

Evaluation of the latrine building component as part of the food for work programme implemented by nine NGOs in the drought affected areas in Swaziland from 1993 to 1996.

Angola: Sida/World Bank 1995 -97

Review and assistance to the low-cost sanitation component of the Lobito-Benguela Urban Environmental Rehabilitation Project.

Tanzania: UNICEF Dar es Salaam/UNHCR 1995

Assessment of latrine building programme in Ngara refugee camps

Tanzania: UNICEF Dar es Salaam/EEPSCO 1995

Conducting Kisarawe Sanitation Workshop for Government Officers, NGOs and private sector representatives.

Angola: Development Workshop 1995

Review and assistance to Luanda Low Cost Sanitation Programme.

India: SULABH International, New Delhi, 1995

Assessment of the low cost sanitation component in the activities of SULABH international in the context of nation-wide implementation of improved sanitation in India.

Guinea-Bissau: UNICEF-Bissau 1995

Assessment of present sanitary conditions in rural and peri-urban areas, elaboration of strategies, proposal for sanitation policy, curricula development and training of staff in construction of improved latrines.

Tanzania: COWiconsult/WB 1995

Preparation of the implementation of the On-Site Sanitation component for the three municipalities Mwanza, Tabora and Mbeya within the World Bank funded Urban Sector Engineering Project.

Swaziland: UNICEF Mbabane 1994-1995

Preparation of project documents and training material for sanitation in schools and health clinics in cooperation with Ministry of Health and the Rural Water Supply board.

WHO/SIDA 1994-95

Participation in the WHO Collaborative council working-group for Sanitation Promotion under SIDA funding.

Zimbabwe: UNICEF-ESARO 1994

Resource person and participant in a regional communication workshop on Hygiene sanitation water in Mazavikadei.

India: UNICEF/SIDA 1994

Participant and resource person in Global Meeting on Water and Sanitation, Bangalore under SIDA funding.

Sudan: UNICEF - Khartoum 1994

Assessment/evaluation of the sanitation component of the UNICEF WES programme in Sudan.

Mozambique: UNDP/UNHCR, Carl Bro International and The Institute for Rural Development INDER (ex INPF) 1993-1994

Development of appropriate technology and system analysis for sanitation in high-density peri-urban areas situated on solid rock in the City of Tete.

Ethiopia: UNICEF - Addis Ababa 1993

Preparation of and facilitator in a training course for rural sanitarians in co-operation with other consultants and officials.

Madagascar: UNICEF - Antananarivo 1993

Investigation of existing sanitary conditions with impact assessment and recommendations for technology, implementation strategy and budgets.

Bangladesh: UNICEF - Dhaka 1992

Review of Bangladesh national rural sanitation programme and advise on approach and technology.

Uganda: World Bank/Cowi Consult 1992

Adviser to the Sanitation Component of the Small Towns Water and Sanitation Project.

Bangladesh: Krüger Consult 1992

Preparation of tender proposal for Dhaka Low-Cost Sanitation.

Zambia: World Bank/UNICEF 1992

1. Sanitation adviser on school latrines and cholera control within the Primary Schools Education Rehabilitation project pre-appraisal. (World Bank/UNICEF).
2. Adviser to UNICEF on their involvement in the water and sanitation sector in Zambia. (UNICEF).

Botswana: SIDA/Ministry of Local Government and Lands 1991

Appraisal of the National Rural Sanitation Programme for possible extension of SIDA funding.

Mozambique: UNDP and The Institute for Rural Development INDER (ex INPF) 1991

Low-Cost Sanitation, Preparation of Project document for continued and expanded UNDP and Co-funding Donors.

Uganda: DANIDA/RUWASA/Carl Bro International 1991

Short-term adviser to the Sanitation Component of the RUWASA East Uganda Water and Sanitation Project.

Mozambique: UNDP and the National Institute for Physical Planning (INPF) 1990

Evaluation of Environmental health and sanitation project MOZ/86/012.

Tanzania: SIDA/HESAWA 1990-91

1. Preparation of manual on PLANNING, CONSTRUCTION AND OPERATION OF PUBLIC AND INSTITUTIONAL LATRINES.
SIDA/HESAWA 1989.
2. Resource person in the workshop on sanitation for Rural Communities specially focusing public sanitation facilities.

Angola: WORLD BANK 1989 - 1990

Adviser on urban low-cost sanitation (programme management, technology, promotion and sanitary education) for the Lobito-Benguela Urban Rehabilitation Programme

Tanzania: NORAD/RUDEP 1989

Expert on low-cost sanitation for the review of the health sector within the Rukwa Rural Development Programme.

1985-1989 Malawi

Adviser on low-cost sanitation to the Government of Malawi, Ministry of Works (Department of Water) and Ministry of Local Government (UNDP and World Bank). Development and implementation of systems for low-cost sanitation in peri-urban and rural areas. Development and pilot implementation of training programmes for large-scale implementation of low-cost sanitation.

1979-1985 Mozambique

Adviser on Housing and Low-Cost Sanitation to the National Institute for Physical Planning (UNDP and Government of Mozambique).

National Co-ordinator of the National Low-Cost Sanitation Programme.

Research co-ordinator on technologies and implementation systems for urban low-cost sanitation.

("The Latrine Project, Mozambique" International Development Research Centre, IDRC, Ottawa Canada, 1983)

Design of low-cost housing, furniture and urban planning.

1977-1979 Sweden

Architect and building engineer at consulting engineers and architects offices.

Design of a rural mission hospital for the Pentecostal Free Mission in Lamera, Zaire.

Design of department houses, office blocks, private residences, restaurants etc.

1977 Burkina Faso

Research on building technology and building problems in a traditional village for Chalmers University of Technology, Department of Architecture.

1976 Mozambique

Research on building technologies and building problems in an unplanned urban settlement in Maputo Mozambique (the Malhangalene Survey) for the National Directorate of Housing, Mozambique.

1964-1973 Sweden

Civil engineer at consulting engineers and architects offices. Design of department houses, hospitals, industrial buildings, residences, etc.

Works supervisor and builders foreman at building sites for hospital, supermarket, private residence, industrial buildings etc.

INTERNATIONAL COURSES AND SEMINARS (selected)

- 2008 AfricaSan 2008; Inter-African meeting on sanitation in Africa. Durban South Africa
- 2004 Workshop on Micro Finance for Low income communities in Southern Africa. Maputo. Lutheran World Federation and Church of Sweden
- 2004 Workshop on Fundraising and Resource Mobilization; Maseru, Lesoto
- 2003 Regional meeting on Ecological Sanitation Research in West Africa as expert on construction issues. Ouagadougou, Burkina Faso
- 2003 2nd International Symposium on Ecological Sanitation Research in Lübeck Germany as participant and resource person
- 2001 27th WEDC Conference Lusaka, Zambia, Presentation of paper Quality in Participatory Sanitation Programmes
- 1999 Ecological Sanitation Workshop Harare Zimbabwe 2-6 October 1999 Mvulamanzi Trust / Sida / UNICEF as participant and resource person
- 1999 WHO/UNICEF/ITN workshop on the PHAST method for Participatory Hygiene and Sanitation Transformation Harare Zimbabwe 29 September - 1 October 1999. Participant.
- 1997 SIDA Sanitation Workshop on Sanitation and Protection of the Global Environment and the Stockholm Water Symposium as participant.
- 1997 Key facilitator in three UNICEF Regional workshops in Ibadan, Nigeria, Ouagadougou, Burkina Faso and Labé, Guinea, for UNICEF/Sida on promotion and implementation of low cost sanitation programmes for 18 countries in West Africa
- 1996 22nd WEDC Conference on Water and Sanitation. Theme: Reaching the Unreached. Participant and resource person.
- 1994 Regional seminar on Sanitation for UNICEF Eastern and Southern Africa Region in Mazavikadei, Zimbabwe. Participant and resource person.
- 1994 Global Conference of UNICEF WES Professionals Water and Sanitation, Bangalore, India. Participant and resource person.
- 1991 17th WEDC Conference on Infrastructure Water, Sanitation and People, Nairobi. Participant and resource person.
- 1988 Water Supply and Engineering in Rural Development in Africa; WEDC, Lilongwe, Malawi. Participant and resource person.

- 1987 International Seminar on Resource Mobilisation for Drinking Water and Sanitation in Developing Countries, American Association of Civil Engineering, São João, Puerto Rico. Participant and resource person.
- 1986 Financing Water Supply and Urban Development. World Bank, Water Supply and Urban Development Department, Hershey, Pennsylvania. Participant.
- 1985 Management and Finance Issues in the Water Supply and Urban Development Sector. World Bank, Water Supply and Urban Development Department, Hershey, Pennsylvania, 8-11 January 1985. Participant.

PERSONAL AND PROFESSIONAL REFERENCES

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PUBLICATIONS (Selected)

- 2001 QUALITY IN PARTICIPATORY SANITATION PROGRAMMES in Proceedings from the 27th WEDC Conference Lusaka, Zambia, 2001
- 1997 LATRINE BUILDING: A Handbook for Implementation of the SanPlat System. Intermediate Technology Publications, London 1997, with support from Sida and UNICEF.
- 1996 SANITATION ENTHUSIASM IN NIGERIA, Implementation of the SanPlat System in the UNICEF-Enugu Integrated sanitation Programme. WATERfront No 9, 1996
- 1966 AFFORDABLE SANITATION FOR RURAL INDIA. Paper presented at the 22nd Water and Sanitation Conference in New Delhi, India 9-13 Sept 1996
- 1994 SCALING-UP ENVIRONMENTAL SANITATION IN DEVELOPING COUNTRIES Paper presented at the SIDA Workshop on Environmental Sanitation in Linköping 3-4 February 1994
- 1993 A SANITATION REVOLUTION IN BANGLADESH? Article for Waterlines Vol. 11 No. 4 April 1993. Findings from a consultancy for UNICEF, Bangladesh.
- 1991 SANPLAT VERSUS VIP, A COMPARISON BETWEEN TWO LOW-COST SANITATION SYSTEMS. Discussion paper. Limited distribution.
- 1991 PLANNING, CONSTRUCTION AND OPERATION OF PUBLIC AND INSTITUTIONAL LATRINES, HESAWA Tanzania. SIDA through the HESAWA programme, Tanzania 1991.
- 1990 URBAN HOUSING AND HEALTH IN SUB-SAHARAN AFRICA, in SOCIETY, ENVIRONMENT AND HEALTH IN LOW-INCOME COUNTRIES, Karolinska Institutet, Department of Health Care Research (IHCAR), Stockholm.
- 1988 IMPROVED SANITATION IN MALAWI, THE URBAN TO RURAL APPROACH, in DEVELOPING WORLD WATER, Grossvenor Press International, Hong Kong 1988.
- 1987 CAN A LATRINE LAST A LIFETIME? American Society of Civil Engineers, USA 1987.
- 1985 MANUAL DE LATRINAS MELHORADAS. National Institute for Physical Planning, Maputo, Mozambique, Second revised version INDER Maputo, 1994.
- 1985 WHY SHOULD A LATRINE LOOK LIKE A HOUSE? in WATERLINES January 1985.
- 1983 THE LATRINE PROJECT, MOZAMBIQUE. International Research Centre (IDRC), Ottawa, Canada.
- 1978 BUILDINGS AND BUILDING PROBLEMS IN YAHO, A TRADITIONAL VILLAGE IN UPPER VOLTA. Chalmers University of technology, Gothenburg, 1978.
- 1977 THE MALHANGALENE SURVEY, A HOUSING STUDY OF AN UNPLANNED SETTLEMENT IN MAPUTO, MOZAMBIQUE 1976, PART II, CONSTRUCTIONS. Chalmers University of Technology, Gothenburg.