

Green Campus Summit-2013

04-05 Apr 2013, Puducherry, India



Conference Schedule

Thursday, April 04, 2013

08:00 am -
09:30 am

Registration

09:00 am -
11:20 am

Conference Inaugural Session

09:00 am -
09:30 am

Welcome Remarks

- Prof. Walter Leal, Senior Professor & Head of the Research and Transfer Centre, Hamburg University of Applied Sciences, Germany
- Dr. Poyyamoli Gopalsamy, Associate Professor, Dept. of Ecology & Environmental Sciences, Pondicherry University, India
- Mr. Nandhivarman Muthu, Chairman of Organising Committee, GCS-2013

09:30 am -
10:30 am

Official Inauguration

Presidential Address

Shri. N. Rangasamy , Honorable Chief Minister of Puducherry

Inaugural Address

Smt. Dr. Chandra Krishnamurthy, Vice Chancellor, Pondicherry University, Puducherry

Special Address

Shri. T. Thiyagarajan, Honorable Education Minister of Puducherry

Shri. K. Lakshminarayanan, Member of the Legislative Assembly. Puducherry

Shri. M. Dwarakanath, Director, Dept. of Science, Technology & Environment (MoEF), Puducherry

Felicitatation Address

Shri Dr. V. Muthu, Founder, Pallavan Group of Educational Institutions

Shri. M. Dhanasekar, Chairman & MD, Manakulavinayakar Group of Institutions

10:30 am - 11:20 am	Opening Remarks : Different Perspectives of Green Campus Prof. Dr. K. V. Devi Prasad , HOD, Dept. of Ecology & Environmental Sciences, Pondicherry University Prof. Ben Radhakrishnan , National University, San Diego, California, USA Dr. S. Varalakshmi , Bharathidasan Govt. College for Women, Puducherry Prof. Paul Brian Scott , University of Newcastle, New South Wales, Australia Prof. José Baltasar , Universidade do Sul de Santa Catarina (Unisul), Brazil Dr. Thomas Eatmon , Allegheny College, Pennsylvania, USA Prof. Rudolf Wessel Pretorius , University of South Africa (UNISA), South Africa Prof. John Callewaert , Graham Sustainability Institute, University of Michigan, USA Prof. Sophie Némov , University of Versailles, Saint-Quentin-en-Yvelines, France
11:20 am - 11:40 am	Tea Break and visit to Poster Presentation Area
11:40 am - 01:00 pm	Plenary Session
11:40 am - 12:00 pm	Lecture I :Advancing a culture of sustainability at the University of Michigan CallewaertJ. *, MaransR.W., and ShribergM. Graham Sustainability Institute, University of Michigan,625 E. Liberty, Suite 300,Ann Arbor, MI 48104, USA
12:00 pm - 12:20 pm	Lecture II : Participatory Governance Structures for Sustainable Development in Higher Education ValentinTappeser * rootAbility, c/o FreieUniversität Berlin, Malteser Str. 74-100, Haus L, 12249 Berlin, Germany
12:20 pm - 12:40 pm	Lecture III : Food production as an integrating context for campus sustainability Thomas Eatmon*, Eric Pallant, and Samantha Laurence Department of Environmental Science, Allegheny College, 520 N. Main Street, Meadville, PA 16335,USA.
12:40 pm - 01:00 pm	Lecture IV :Energy efficiency in the adoption of renewable energies: a case study of REGSA project José BaltazarSalgueirinhoOsório De Andrade Guerra *, Luciano Dutra, Norma Beatriz CamisãoSchwinden and SuelyFerraz de Andrade Universidade do Sul de Santa Catarina-- UNISUL,Florianópolis, Santa Catarina, Brazil
01:00 pm - 02:00 pm	Lunch Break

02:00 pm - 03:40 pm	Session 1A Chair: Dr. John Callewaert Theme: Action research and Models of Campus Greening Initiatives	Session 1B Chair: Prof. José Baltazar Theme: Action research and Models of Campus Greening Initiatives
02:00 pm – 02:20 pm	1A-1 Smart Campus: recent advances and future challenges for research-action on territorial sustainability Sophie Némoz* ECONOVING international chair in eco-innovations, REEDS centre for Research in Ecological Economics, Eco-innovation & Tool Development for Sustainability, University of Versailles Saint-Quentin-en-Yvelines, FRANCE.	1B-1 From correspondence to online provisioning in open and distance learning: Greening implications versus practical and organisational imperatives Pretorius RW ¹ , Coetzee R. ¹ , de Jager A.E. ¹ , van Niekerk H.J. ² , Vlok A.C. ¹ , Hendrick R.M ³ and Potgieter C.E. ² 1Department of Geography; 2Department of Environmental Sciences; 3School of Environmental Sciences College of Agriculture and Environmental Sciences, University of South Africa, Florida Campus, Private Bag X6, Florida 1710, South Africa
02:20 pm – 02:40 pm	1A-2 Flag-shipping ‘indicators’ for green-campus transitions & sustainability: a case-study of learner-centered projects at Loyola Secunderabad Balachander S K* Department of Environmental Sciences, Loyola Academy Degree & PG College, Old Alwal, Secunderabad 500010 AP, India.	1B-2 DCURST: towards a successful green campus Chahal H.S. ¹ , Rana J.S. ^{2*} and Nehra S.P. ² 1 Vice Chancellor; 2 Centre of Excellence in Energy and Environment Studies Deenbandhu Chhotu Ram University of Science & Technology, Murthal, Sonapat-131039 (Haryana) India
02:40 pm – 03:00 pm	1A-3 Greening Dreaming: Australian university websites and claims of sustainability Paul Scott* School of Design, Communication and Information Technology, The University of Newcastle, New South Wales, Australia	1B-3 Urbanization and green spaces – a study on Jnana Bharathi Campus, Bangalore University Kumar M. *, Nandini N., Vijay Kumar M. And Raghavendra M. Department of Environmental Science, Bangalore University, Jnana Bharathi Campus, Bangalore – 560 056, Karnataka, India

03:00 pm – 03:20 pm	1A-4 Choice of appropriate design for a sustainable campus- Veda Pathashala, Srisailam-a case study Rao M N ¹ , RamnageshM ² , SudheerReddyA.V. ¹ , Gopi Kiran M. ³ 1 Jawaharlal Nehru Technological University, JNT University Campus, Kukatpally, Hyderabad, Andhra Pradesh 500085 2 Executive Engineer, RWS, India 3 Indian Institute of Technology Guwahati, Amingaon Guwahati, Assam 781039	1B-4 Developing Pondicherry University Silver Jubilee Campus as “Solar Campus” Dwipen Boruah ^{1*} , Arun Prasath R. ² Poyyamoli G. ³ NandhivarmanM. ³ & Golda A. Edwin ³ 1 Managing Director, GSES India Sustainable Energy Pvt. Ltd., B-387 (2nd Floor), CR Park, New Delhi - 110019, India 2 Center for Green Energy Technology, Pondicherry University 3 Department of Ecology & Env. Sciences, Pondicherry University
03:20 pm – 03:40 pm	1A-5 Resource management for sustainable development- a case study at RARS Pattambi Moossa, PP, Thulasi, V *, Ilangoan, R and Raji P Regional Agricultural Research Station, Pattambi, Kerala Agricultural University, Kerala, India	1B-5 Gujarat Vidyapith: on the way to greening of the University Nimisha Shukla * and Rajendra Khimani Gujarat Vidyapeeth, Nr. Income Tax Office, Ashram Road, Ahmedabad – 380014
03:40 pm - 04:00 pm	Tea Break and visit to Poster Presentation Area	
04:00 pm - 06:00 pm	Session 2A Chair: Prof. Sophie Némov Theme: Environment Education and Curriculum Development	Session 2B Chair: Dr. K.V. Devi Prasad Theme: Green Building/ Architecture/ Land Use
04:00 pm - 04:20 pm	2A-1 Campus greening in open and distance learning: Curriculum initiatives in the Department of Geography, University of South Africa PretoriusR.W., Hedding D.W., Nicolau M.D., and Nkoee E.S. Department of Geography, College of Agriculture and Environmental Sciences, University of South Africa, Florida Campus, Private Bag X6, Florida 1710, South Africa	2B-1 Overview of natural stones as an energy efficient and climate responsive material choice for LEED certified green buildings Anil Kumar P.P. Department of Architecture, National Institute of Technology, Calicut, NITC-673601, India

04:20 pm - 04:40 pm	2A-2 Integrating Energy and environment in post graduate management education: a case study from Symbiosis Institute for International Business, Pune, India Prakash Rao* and Yogesh Patil Symbiosis Institute of International Business, Symbiosis International University, G.No.174/1, Hinjewadi, Pune, India	2B-2 Integrated land use development for green campuses Lakshmi Thilagam N Architect, L & B Associates, Puducherry, India.
04:40 pm - 05:00 pm	2A-3 Green Responsibility: what educators, students and institutes can do? Jagannath Mohanty Institute of Management Technology, Nagpur, Maharashtra, 441502, India	2B-3 Construction of a circular building and use of multiwall Polycarbonate Skylight Dome for sustainability and energy efficient outdoor lighting system in married hostel of Haldia Refinery Township Sankar Mondal *, Moni Sankar Hazra, Amarjit Sahu Haldia Refinery, Indian Oil Corporation Limited, West Bengal, India
05:00 pm - 05:20 pm	2A-4 National University's integrated approach towards sustainable-green campus: leadership, curriculum, and outreach Ben D Radhakrishnan * and Shekar Viswanathan Applied Engineering Department, School of Engineering, Technology, and Media, National University, San Diego, CA, USA	2B-4 Responsive and Responsible Green Architecture: A Sustainable Solution to Create a Green Campus. Dinesh Kumar M. And Rajkumar D. Lead Architects, Luxen Architects Pvt. Ltd., Coimbatore, Tamilnadu, India.
05:20 pm - 05:40 pm	2A-5 Cultures of Energy: Changing beliefs and behaviors in the higher education community context Sarah Strauss Department of Anthropology, University of Wyoming, 1000 E. University Ave, Box 3431, Laramie, WY, 82071, USA.	2B-5 Natural Fiber Boards (NFB)-product development, marketing and business plan for green buildings using NFB replacing wood. Padmanaban A.G.*, Hariprakash M. and Dinesh M. Dept. of Production Engineering, Govt. College of Technology, Coimbatore, Tamilnadu
05:40 pm-	2A-6	2B-6

06:00 pm

Human vs. Nonhuman: environmental issues and concerns in Amitav Ghosh's The Hungry Tide

Marie Josephine Aruna

Faculty of English, Tagore Arts College, Affiliated to Pondicherry Central University, Lawspet, Puducherry-605008
South India, India

BIOTECHTURE – a new framework to approach buildings & structures for green campus design

Chithra K^{1*} and Amritha Krishnan K²

1 Department of Architecture, National Institute of Technology, Calicut, NITC-673601 Kerala, India

2 Architect, C& T Architects, Bangalore

Friday, April 05, 2013

09:20 am - 11:00 am	Session 3A Chair: Dr. Carrick M Eggleston Theme: Energy Management/ Energy Conservation/ Green Chemistry	Session 3B Chair: Dr. Thomas Eatmon Theme: Waste Management/ Water Management/ Water Treatment / Transportation
09:20 am - 09:40 am	3A-1 Potentials and constraints for adopting campus carbon neutrality strategies in Indian higher educational institutions <p>Poyyamoli G. ^{1*} Arun Prasath R. ² Nandhivarman M. ¹ Golda A. Edwin ¹ & Dwipen Boruah ³</p> <p>¹ Department of Ecology & Environmental Sciences, Pondicherry University, Puducherry, India 605014</p> <p>² Center for Green Energy Technology, Pondicherry University</p> <p>³ GSES India Sustainable Energy Pvt. Ltd., New Delhi - 110019, India</p>	3B-1 Food waste prevention & management in higher education <p>Bhushan Girish Trivedi</p> <p>Orbis Development Partners, London, UK</p>
09:40 am - 10:00 am	3A-2 Social feasibility in the adoption of renewable energy sources: a case study of REGSA project <p>José Baltazar Salgueirinho Osório De Andrade Guerra *, Youssef Ahmad Youssef, Leandro Piazza dos Santos and Ane Cristina Figueiredo Pereira de Faria</p> <p>Universidade do Sul de Santa Catarina-- UNISUL, Florianópolis, Santa Catarina, Brazil</p>	3B-2 Vermitechnology – an eco-sanitation tool for solid waste management, bioresource recovery and environment conservation <p>Ushakumari K. ^{1*}, Aparna B. ¹, Sailajakumari M.S. ²</p> <p>¹ Department of Soil Science & Agricultural Chemistry, College of Agriculture, Vellayani, Trivandrum, Kerala -695522, India</p> <p>² Kerala Agricultural University, KVK, Kumarakom, Kottayam, Kerala, India</p>
10:00 am - 10:20 am	3A-3 Clean and renewable energy development – its implications for gender equality in poor communities in Asia <p>Mario Gabriele Miranda* and Ramachandran S.</p> <p>Department of Management Studies, Sri Sankara Arts & Science College, Enathur, Kanchipuram, India</p>	3B-3 Inland waterway as an alternative and sustainable transport in Kuttanad region of Kerala, India <p>Sarath Syamaprasad, Sushmit Das and Madhuri Kumari*</p> <p>Department of Civil Engg, Amity School of Engg & Technology, Amity University, Sector 125, Noida, U.P – 201303, India</p>

10:20 am - 10:40 am	3A-4 Green Thin Layer Chromatography in Chemical Analysis Ali Mohammad ^{1*} , Asma Siddiq ¹ , Gaber E. El-Desoky ² 1Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, Aligarh-202002, India 2Department of Chemistry, College of Science, Building 5, King Saud University, Riyadh, Saudi Arabia	3B-4 Green Transport Solutions for developing cities: a case study of Nairobi, Kenya Benedict O., Muyale and Emmanuel S., Murunga Green Sun Cities, P. O. Box 28808-00100, Nairobi, Kenya
10:40 am - 11:00 am	3A-5 Go green with green chemistry Ramandeep Kaur ^{1*} , Sarpreet Singh ² , Manpreet Singh ³ and Gurjeet Kaur ⁴ 1Department of Chemistry, S.U.S. Govt. College, Sunam-148028, Dist. Sangrur, Punjab, India 2Department of Computer Science and Engineering, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India 3Department of Computer Science, Akal Degree College, Mastuana Sahib, Sangrur, Punjab, India 4Pondicherry University, Puducherry, India	3B-5 Geographical Information System and Water Resources Management Emmanuel K.V., Vignesh S. and Arthur James R.* Department of Marine Science, Bharathidasan University, Tiruchirapalli – 620 024
11:00 am - 11:20 am	Tea Break and visit to Poster Presentation Area	
11:20 am - 01:00 pm	Session 4A Chair: Dr. Arun Prasath R Theme: Energy Management/ Energy Conservation/ Green Chemistry	Session 4B Chair: Dr. Poyyamoli G Theme: Waste Management/ Water Management/ Water Treatment / Transportation
11:20 am - 11:40 am	4A-1 Renewable energy on campus at the University of Wyoming Eggleston C.M. Department of Geology and Geophysics, Associate Director, Center for Photoconversion and Catalysis, University of Wyoming, Laramie, WY82071 USA	4B-1 Strategies for sustainable development of wetland resources: Lake Ousteri, Puducherry. Devabalane E. Department of Tourism and Travel Management, Tagore Arts College, Puducherry – 605008, INDIA

11:40 am- 12:00 pm	<p>4A-2 Vertical axis wind turbines on campuses</p> <p>Abdul AkbarM. * and MustafaV.</p> <p>Department of Civil Engineering, National Institute of Technology, NIT Campus (P.O), Calicut, Kerala-673 601, India</p>	<p>4B-2 Water purification in rural areas of Ramanathapuram (India) using Moringa Oleifera- “A Low Cost Technology”</p> <p>Uma Maheswari R. ^{1*}, JoshuaR. ² and MallikaS. ¹</p> <p>1 Arulmigu Palaniandavar Arts College for Women, Palani, Tamil Nadu, India. 2 Mohamed Sathak Polytechnic College, Kilakarai, Tamil Nadu, India.</p>
12:00 pm- 12:20 pm	<p>4A-3 Carbon Neutral Institutions – an innovative approach to promote carbon mitigation through multi-stakeholder partnership</p> <p>Balasubramanian A.*, Narentheran G. G., Radhakrishnan S., Tilak M., Anbarasu K.S. And Durairasu P.</p> <p>Department of Forest Ecology and Environment, Forest College and Research Institute, Tamil Nadu Agricultural University, Mettupalayam – 641 301, TN, India</p>	<p>4B-3 Study on effectiveness of recharge Structure form of Rain Water Harvesting in high groundwater table area and coastal saline environment of Haldia Refinery and Township</p> <p>Moni Sankar Hazra*, Amarjit Sahu</p> <p>Haldia Refinery, Indian Oil Corporation Limited, W. B., India.</p>
12:20 pm - 12:40 pm	<p>4A-4 The Role of Higher Educational Institutions and other training organizations in India to promote Renewable Energy</p> <p>Arun PrasathR. ^{1*}, Poyyamoli G. ², Nandhivarman M. ², Golda A. Edwin², and Dwipen Boruah³</p> <p>1 Center for Green Energy Technology, Pondicherry University, Puducherry, India 605014 2 Department of Ecology & Env. Sciences, Pondicherry University 3 GSES India Sustainable Energy Pvt. Ltd., New Delhi - 110019, India</p>	<p>4B-4 Wastewater reclamation technologies for safe artificial groundwater recharge</p> <p>Jayasree V.S</p> <p>Engineering Manager, EDRC, Larsen & Toubro Limited, Public Health Engineering, Buildings and Factories (IC), Mount Poonamalle road, Manapakkam, Chennai – 600 089</p>

12:40 pm - 01:00 pm	4A-5 Proposal of energy efficient lighting solution for steel industry Ashista Bachaspati ^{1*} , Shailesh K R ¹ , Amar Mahajan ² ¹ Manipal Institute of Technology, MIT Inside Road, Manipal, Udupi, Karnataka 576104, India ² Wipro Limited, Pune, Maharashtra, India	4B-5 Strategies to promote water recycling and reuse at campus level Golda A. Edwin ^{1*} , Poyyamoli G. ¹ , ArunPrasathR. ² , NandhivarmanM. ¹ , & Dwipen Boruah ³ ¹ Department of Ecology & Env. Sciences, Pondicherry University, Puducherry, India 605014 ² Center for Green Energy Technology, Pondicherry University. ³ GSES India Sustainable Energy Pvt. Ltd., New Delhi - 110019, India
01:00 pm - 02:00 pm	Lunch Break	
02:00 pm - 03:40 pm	Session 5A Chair: Prof. Ben Radhakrishnan Theme: Ecology/ Biodiversity/ Food Services/ Food Security	Session 5B Chair: Prof. R.W. Pretorius Theme: Ecology/ Biodiversity/ Food Services/ Food Security/ Materials
02:00 pm - 02:20 pm	5A-1 Strategies to promote green agriculture- need for the day Aparna B *, Usha Kumari K, Sreekala GS., Neethu RS & Anushma S. College of Agriculture, Vellayani, Trivandrum, PIN-695522,, Kerala , India	5B-1 The doctrine of public trust and the conservation of biodiversity Mrinalini Shinde National Law School of India University, Gyanbharathi Road, Nagarbhavi, Bangalore, Karnataka, 560072, India
02:20 pm - 02:40 pm	5A-2 An analytical study of the role of the government in environmental management system in agriculture Sarada Prasad Mohapatra S.C.S College, Puri, Odisha, India	5B-2 Extraction of silica from different natural resources – a comparative study Vineet Vaibhav, Sonikajha and Vijayalakshmi U.* Department of Chemistry, Materials Science Division, School of Advanced Sciences, Vellore Institute of Technology, Vellore – 632 014.

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02:40 pm - 03:00 pm	5A-3 GPS and embedded system based FDA Gopalakrishnan N*, Aswin S and GnanaPrasanna R Department of Biomedical Engineering, Sri Sivasubramaniya Nadar (SSN) College of Engineering, Tamil Nadu, India.	5B-3 Organic Farming at campus level - a study on Jawahar Navodaya Vidyalaya, Puducherry Campus Kamalam R.*, Vinayathan A. and Nandhivarman M. Jawahar Navodaya Vidyalaya, Puducherry, India.
03:00 pm - 03:20 pm	5A-4 Enhancing Biodiveristy in College Campus RamalingamVenugopal and KalaiselviArumugam Department of Zoology, Kanchi Mamunivar Centre for Post Graduate Studies, Puducherry, India	5B-4 Effectiveness of biodiversity education and sustainability content in middle school science text books of Tamil Nadu, India for promoting the concept of green schools Alexandar R.* and Poyyamoli G. Department of Ecology & Environmental Sciences, Pondicherry University, Puducherry, India 605 014.
03:20 pm - 03:40 pm	5A-5 Perception of local communities on community based Ecotourism, Wayanad, Kerala Pradheeps M and Poyyamoli G Department of Ecology & Environmental Sciences, Pondicherry University, Puducherry, India 605014	5B-5 University, City Council and Community Partnership for wetland conservation and ecotourism development on the shores of Lake Victoria, Kenya Nyamwen, I.M.*, Olima, W.H.A and Hayombe, P.O School of Spatial Planning and Natural Resource Management, JaramogiOgingaOdinga University of Science and Technology, Kenya
03:40 pm - 04:00 pm	Tea Break and visit to Poster Presentation Area	
04:00 pm - 05:30 pm	Concluding Session	

Poster Presentation

Sustainable algal bio-fuel

Ajay Kumar* and Kar B.B.

Kalinga Institute of Industrial Technology (KIIT) University, Chandrasekharapur, Bhubaneswar, Odisha, India

The Impact of Climate Change Adaptation Strategies on Biodiversity Conservation in Kilifi County, Kenya.

Prof Chiuri, W¹. and Osio, A.A^{2*}

¹Gender and Development Expert Prof-CIAT-Rwanda

²Egerton University, P.O Box 536-Njoro-Kenya

Food service and security in India

Garima Ujjainia

Indira Gandhi Institute of Technology (GGSIPTU), Kashmiri Gate, Delhi 110006, India

Sustainable practices networked at I International Conference on Collaborative Environmental Management (GIGAC) in Sousa, Paraíba, Brazil.

Maira Begalli^{1*}, Amanda Wanderley² and Orlando da Silva³

1 Universidade Santa Cecília, RuaOswaldo Cruz, 277, CEP 11045-907, Santos-SP, Brasil

2 Universidade de São Paulo, Rua do Matão, 277, CEP 05508-090, São Paulo-SP, Brasil

3 Universidade Federal de Campina Grande, RuaSinfrônioNazaré, 38, CEP 58800-240, Sousa-PB, Brasil

Audubon International's Sustainable Campus Programs: Integrating Sustainability into the Core Activities of Your Institution

Joanna Nadeau*, Joellen Lampman, and Ryan Aylesworth

Audubon International, 120 Defreest Drive, Troy, New York-12180

Conservation Genetics of Western Ghats Amphibians by Using Barcoding

Shamjana U. ^{1*}, Jomit C.P. ²

1 Department of Genomics Science, Central University of Kerala, Kasaragod, Kerala, India

2 Department of Economics, Central University of Kerala, Kasaragod, Kerala, India

Conservation of Genetic Diversity in Calotes versicolor (Garden lizard) using RAPDs Analysis

Utpala Sharma, Dayal P Gupta

Department of Zoology Dayalbagh Educational Institute, Dayalbagh Agra 282110, India

Strategies to promote water recycling and reuse at campus level

Golda A. Edwin^{1*}, Poyyamoli G. ¹, Arun Prasath R.², Nandhivarman M.¹, & Dwipen Boruah³

Department of Ecology and Environmental Sciences, Pondicherry University, India.

Influence of molecular charges of textile dyes on the recovery of water and salts from the synthetic dye waste water by Nanofiltration membrane

Chidambaram Thamaraiselvan*, Kadarkarai Govindan and Michael Noel

Water treatment lab, Water Institute Karunya University, Coimbatore-641 114, Tamil Nadu, India.

Studies on plankton diversity with reference to pollution in Bangalore urban lake

Nandini N., Raghavendra M., Vijay Kumar M., and Bheemappa K.

Department of Environmental Science, Bangalore University, Jnana Bharathi Campus, Bangalore – 560 056, Karnataka, India

Waste to Watts - production of electricity from materials that have lost their economic value

Tejaswini Gowda M E ^{1*}, Nisha Mahendra¹ and Sridar Babu M N²

1 Manipal Institute of Technology, Manipal , Udupi, Karnataka 576104, India

2 The Energy and Resources Institute- SRC, Bangalore, Karnataka 560008, India

Achieving the 'Green' Goal using water, energy and other resources efficiently

Ebenezer D.

Computer Sciences Corporation, Arkansas, USA

Sewage sludge treatment by physical and chemical treatment and determination of microbial death rate in sludge after treatment

Nisha Mahendra^{1*}, Akshaya R², Amoolya CA², Roshan Makam², Sridar Babu MN³

1 Manipal Institute of Technology, Manipal, Udupi, Karnataka 576104, India

2 PESIT, Bangalore, Karnataka 560085, India

3 Associate Fellow, The Energy and Resources Institute- SRC, Bangalore, Karnataka, India

Go green with green chemistry

Ramandeep Kaur^{1*}, Sarpreet Singh², Manpreet Singh³ and Gurjeet Kaur⁴

1Department of Chemistry, S.U.S. Govt. College, Sunam-148028, Dist. Sangrur, Punjab, India

2Department of Computer Science and Engineering, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India

3Department of Computer Science, Akal Degree College, Mastuana Sahib, Sangrur, Punjab, India

4Pondicherry University, Puducherry, India

Escalation of conflict between local communities and barriers to achieve sustainable practices following the implementation of a marine protected area in Chile

Daniela Serra Maggi

Centre for Sustainability Agriculture, Food, Energy and Environment (CSAFE), University of Otago, Box 56, Dunedin 9054, New Zealand

Campus Environmental Audit

Alagappa Moses. A*

Bishop Heber College, Puthur, Tiruchirappalli, Tamilnadu, India

Performance of Grey water Treatment in Roughing Filters

JananiBala M and Devasena M*

Sri Krishna College of Technology, Coimbatore, TN, India

Campus Green Initiatives

Anand Gideon V*

Bishop Heber College, Puthur, Tiruchirappalli, Tamilnadu, India

Wealth out of waste

Raja Harshavardhan. R* and Suresh Ramanan. S

Forest College and Research Institute, Mettupalayam, Tamil Nadu Agricultural University, Coimbatore, TN, India

GPS and embedded system based FDA

Gopalakrishnan N*, Aswin S and Gnana Prasanna R

Department of Biomedical Engineering, Sri Sivasubramaniya Nadar (SSN) College of Engineering, Tamil Nadu, India.

Green Transport Solutions for developing cities a case study of Nairobi, Kenya

Benedict O., Muyale and Emmanuel S., Murunga

Green Sun Cities, P. O. Box 28808-00100, Nairobi , Kenya

Steps towards sustainable management of wastes generated within a campus

Nandhivarman M.^{1*}, Poyyamoli G. ¹, Arun Prasath R.², Golda A. Edwin¹ & Dwipen Boruah³

1 Department of Ecology & Env. Sciences, Pondicherry University, Puducherry, India 605014

2 Center for Green Energy Technology, Pondicherry University.

3 GSES India Sustainable Energy Pvt. Ltd., New Delhi - 110019, India

Saturday, April 06, 2013

Technical Site Visit

Site 1: Handmade Paper Factory

The Hand Made Paper Factory, started in 1959, is internationally known for the strong and beautifully colored eco-friendly paper it produces by hand. It specializes in white drawing paper and bond stationery paper in a range of colors. The most successful products are the special papers: bagasse, bamboo, rice husk, gunny, straw, algae and tea leaves in paper pulp so that an abstract design is created on the paper when it finally emerges. Another successful product is marbled paper with which stationery items are made. Marbling is a Japanese art of abstract painting done on water. Every sheet of paper is an individual work of art and varies both in shade and design.



Site 2: Explore the architecture and history of Puducherry

Pondicherry or Puducherry is a planned city unlike most other places in India. All the roads meet at right angles according to the grid system and a long Petit Canal divides the city on the seaward side. The French township is on the sea-facing side while the other is on the Indian side. Places to visit: Pleasant beach alongside promenade, Historical Monuments, Museum, Aayi Mandapam among others. According to the historians, Aayi Mandapam was built during the sixteenth century. It was named after a lady courtesan called Ayi. She destroyed her own house to erect a water reservoir to supply water for the city. At that time Napoleon III was the ruler of France. Later on, the French authority named the place to remember her contribution to the city. The Museum, though small, contains Interesting artifacts from the excavations at the Roman settlement of Arikamedu. It portrays the art and culture of the people of the area during the Pallava, Chola, and Vijayanagar days



Lunch at Auroville

Site 3: Auroville Solar Kitchen and Centre for Scientific Research

Auroville (City of Dawn) is an "experimental" universal township, near Puducherry. It is recognized as the first and only internationally-endorsed ongoing experiment in human unity and also concerned with - and practically researching into - sustainable living and the future cultural, environmental, social and spiritual needs of mankind. The Auroville community has experimented with many sustainable technologies since it was founded in 1968 in the areas of reforestation, renewable energy, appropriate building technologies, water and sanitation, including decentralized wastewater treatment systems. As part of this tour, we will visit the Auroville Solar Kitchen, which is a collective kitchen for the Auroville community since December 1997. It derives its name from the large Auroville Solar Bowl on its roof, which provides the steam for cooking on all the sunny days of the year. We will also visit the Centre for Scientific Research (CSR), an international voluntary organisation working towards a sustainable future in the field of renewable energy systems (wind, solar, biomass), appropriate architecture & building technologies, waste water recycling and sanitation, and the transfer of these technologies through training programmes. If time permits, we can visit other nearby places of interest in Auroville.



Site 4: JNV- The green campus in the making

Jawahar Navodaya Vidyalaya (JNV) is a residential central school located at Puducherry. The school has pioneered in the region to implement demonstrable sustainability related projects to not only serve as an experiential learning tool for the campus community but also serve as a model for other institutions to follow or adopt from. The major projects include, Establishing Office of Sustainability, Constructed wetland for Grey Water Management, Bio-fertilizer and Bio-pesticide Production, Bio-energy Generation from Organic Kitchen Waste, Hugulkultur and Xeriscaping for Biodiversity Conservation and Restoration, Green House for Organic Olericulture, Organic Farming and Women Empowerment, Jatropha and Renewable Energy among others. The projects have also won accolades at the 20th National Children's Science Congress, 2012. The key highlight is that the students and faculties of the institute have volunteered to implement and maintain all of the projects in collaboration with researchers, thereby reducing the overall cost which is a major factor in developing countries such as India.

