

Estd.1951.

Accredited with B⁺⁺ By NAAC

Sponsored by UGC & APPCB

National Conference

on

EMERGING TECHNOLOGIES IN ENVIRONMENTAL SCIENCE

22nd & 23rd October 2010

REPORT



**Vutukuri Ramayya Sreshti &
Yarlagadda Ranganayakulu Naidu College,**

Chirala – 523 157

Prakasam Dist., Andhra Pradesh

Website: www.vrsyrn.co.in

E-mail: emertek@yahoo.com



COORDINATED BY

ANDHRA PRADESH POLLUTION CONTROL BOARD

ABSTRACT:

VRS & YRN College, Chirala, Prakasam(Dt), A.P. has organized a 2 day national conference on “Emerging Technologies in Environmental Science” during 22nd and 23rd October under the joint sponsorship of University Grants Commission (SERO) Hyderabad and AP Pollution Control Board, Hyderabad. Call for papers, issued through different modes, have attracted overwhelming response from academicians, Researchers, Practicing Engineers, NGO’s, Scientists and students. Around 110 abstracts are received. 70 in house faculty and 150 registered Faculty + researchers + implementing authorities and student delegates have participated in the deliberations. Inaugural keynote speech followed 4 technical sessions which includes four lead lectures covering all proposed themes. Panel discussions have taken place with the constructive and fruitful suggestions from the session Chairmen, rapporteurs and delegates. Dr. K. Mrutyanjaya Reddy, Director General, APSRAC was the chief guest of inaugural day and the Honorable Vice Chancellor i/c of Acharya Nagarjuna University , Prof. K. Viyanna Rao was the Valedictory Chief Guest.

Conference proceedings were released by the chief guest and guests o f honor on the valedictory day. Three best papers are chosen from the technical paper presenters by the panel of judges and are presented with prizes and certificates. Conference called it a day with recitation of national anthem.

Introduction: Ecological systems play a crucial role in supporting life on earth at different hierarchical levels. They form the life support system without which economic activity would not be possible. There are many signs that the collective global economic activity is dramatically altering the self repairing capabilities' of the global ecosystem. Our ability to change economic and ecological systems, and the rate of spread of the impacts' of these changes, far exceeded our ability to predict the full extent of impacts.

In order to address the future priorities in dealing with environment related issues including the increasing need to disseminate the objective and results of research (technological advancements) to a wide range of stake holders and for the scientific community to continue its efforts to resolve anthropogenic induced environmental problems and the gravity and complexity of the ensuing disastrous threat to the delicate ecological system for human activity, we must act now to spur the adoption of emerging technologies of home and abroad VRS & YRN College, Chirala has initiated to organize a 2 day National conference on "Emerging technologies in environmental science" on 22nd and 23rd October 2010.

Academicians, Researchers, Engineers, site managers, regulatory bodies, policy makers and student fraternity will all benefit from the opportunity to exchange information on recent research and technological findings. The essence of organizing this seminar (EMERTEK 2010) is to serve as a link between Science, Policy practice and decision making in the quest for synergetic sustainable technological solutions for Environmental problems.

The proposed seminar will focus on various environmental remediation problems and measures for restoration of self repairing mechanism of global eco system and will bring together Academicians, Scientists, Researchers, Engineers, Managers, Students, stake holders' etc. to facilitate exchange of ideas, information, as well as to foster collaboration and co-operation amongst professionals, and executing authorities interested in this domain.

Dr. Perni Venkateswarlu, Reader in Geology as organizing *Secretary has* submitted proposals to

1. **The Joint Secretary, University Grants Commission, SERO, Hyderabad** and
2. **Member Secretary, APPCB, Hyderabad**

in the prescribed format seeking financial support to the tune of Rs.2,10,000 (Two Lakhs ten thousand Rupees only)

Objectives:

- To evaluate critically the different forms of pollution and to analyze their interference with the present and future existence of living beings.
- To bring together Researchers, Academicians, Scientists, Students and other Stakeholders that are interested in the application of spatial information technologies and spatial datasets in environmental management.
- To evaluate the need for a multidisciplinary approach in identifying and predicting the impact of coast-line projects on bio-geo physical-chemical environment and human health and to suggest programs, techniques and operational procedures to mitigate their impact on ecosystems.

Proposed Themes:

Technical Sessions

1. Resources and sustainability
2. Environmental impact Assessment
3. Pollution and Control technologies
4. Environmental Geo informatics
5. Environmental education and Awareness
6. Solid Waste Management

As per the UGC XI plan guide lines vide LR.NO.4-4/2010 (UGC _ SERO/SEM, Circular) dt. 24-2-2010 a letter of co-ordination from Andhra Pradesh Pollution Control Board, Regional Office, Nellore is obtained from the Environmental Engineer and furnished to UGC Hyderabad office during March 2010.

The conference dates are finalized (22nd and 23rd October 2010) and the first announcement and call for Technical papers (Abstracts and full length papers) are invited through multi colored brochures on 110 gsm glaze paper. Brochures were posted to Degree colleges, PG Colleges of Commerce and Management, Pharmacy colleges, Education colleges in the purview of Acharya Nagarjuna University, Nannaya University, Andhra University, Osmania University, Sri Venkateswara University, Sri Krishna Devaraya University, Engineering colleges of JNTU Hyderabad, JNTU Kakinada, NGOs, research organizations like NRSC, Indian National Center for Ocean Information System(INCOIS), AP State ground Water Department, Central Ground Water Board ,Atomic Mineral Division (AMD) etc., Conference call for letter was linked to college website and put into conference links.

Different committees are constituted to organize the conference in a systematic way as detailed below. Each Committee was headed by a Senior faculty as Convener/ Co Convener besides 4 or 5 members.

Committee Name	Convener/Co-Convener
1. Invitation Committee	Sri Y. Nageswara Rao , Dept. of Zoology DSR Anjaneyulu, Dept. of Telugu
2. Proceedings Committee	Sri C. Ravindra Kumar, HOD, Dept. of Botany
3. Technical Committee	Dr. V.K. Bhaskara Rao, PG Dept. of Commerce and management
4. Reception Committee	Sri B.V. Krishna Rao, Dept. of Zoology Dr. J. Revathi, PG Dept. of Commerce and Management
5. Transport Committee	Bala Subba Rao, Dept. of Chemistry

6.Hospitality Committee	Y. Hanumantha Rao, Dept. of Chemistry
7. Finance and Purchase Committee	Dr. T. Rosaiah, P.R.K. Murthy, Dept. of Commerce
8. Conference Secretariat	P. Gopinath, Dept. of Physics
9. Public Relations Committee	V. Purna Chandra Rao, Dept. of Politics M. Brahmaih, Dept. of Economics

A **Peer Committee** comprising of Dr. V.K. Bhaskara Rao, Sri C. Ravindra Kumar and Sri B.V. Krishna Rao was constituted to review and select the technical papers received from the delegates.

Inaugural Key Note Speech was given by **K.M. Reddy** on “**Disaster Management and Mitigation through Geo informatics**”.

Lead Lectures

- I. Prof. K. Mukkanti – “**Pollution and Control technologies**”
- II. Sri Khadar Saheb – “**Solid Waste Management**”
- III. Dr. M.V. Rao – “**Coastal environmental with special reference to East Coast Management**”
- IV. ILTD Chirala – “**Industrial Environmental Health and Safety**”
- V. Prof. Sankara Pitchaih & Prof. John Paul – “**Role of earth scientist in Environment problem solving**”

Heterogeneity of Delegates:

Students from Degree College, Engineering College, Pharmacy College, Education, PG Students comprising MCA, MBA, M.Com, Research Scholars from Universities, Teaching fraternity of different levels including JNTU, Alagappa University, Kerala, Practicing Engineers, Scientists from State and Central Government Organizations like StateGround Water Department, Central Ground Water Board, Atomic Mineral Division, NRSC, INCOIS, Asst. Directors of Mines and Geology from Singareni Calories, Couple of Principals.

Representing Universities:

Acharya Nagarjuna University, Andhra University, Nannayya University, Yogi Vemana University, Jawaharlal Nehru Technological University, Indian Institute of Forest Management, Alagappa University (Kerala).

Resource Persons:

Academicians, Practicing Engineer, Disaster Management expert, Geoinformatics expert and Environmental health safety management expert.

Hospitality

Out side delegates (boys and men, Girls and Women)

- Free accommodation,
- Breakfast
- Lunch and dinner
- Four times snacks and High tea.

All the registered Delegates are being provided with a

- Conference bag Worth Rs.150/
- A Note pad
- A pen.
- Proceedings

The details of participants are as follows.

In house faculty + Students (72 + 32)	104
Registered faculty & students (100 + 50)	150

VRS & YRN COLLEGE:: CHIRALA
National Seminar “*Emerging Technologies in Environmental Science*”
List of Registered participants

S. No.	Name	Department
1	M. Jaya Kumar Jacob	Asst. Prof. CEC, Chirala
2	B. Muralidhara Reddy	Geology, YVU, Kadapha
3	J. Abdullah Khan	Geology, YVU, Kadapha
4	D. Janardhana Rao	Asst. Prof. CRR College of Eng. Eluru
5	S. Mutta Reddy	Chemistry, Govt. College for Women, Guntur
6	Dr. V.V. Sailaja	Principal, SPMH College of Education, Machilipatnam
7	G.Y. Setty	Scientist, Central Ground Water Board, Hyd.
8	M. Vijaya Koteswari	Reader in Botany, Hindu College, Guntur
9	G. Janaki	JNTU, Hyderabad
10	Maneesh Mishra	IIFM, Bhopal
11	Vyshali	Vasavi Engg. College, Hyd.

12	A. Jagouthi	Vasavi Engg. College, Hyd.
13	Sujatha Lakshmi	SIMS, Guntur
14	G. Ramya	Vasavi Engg. College, Hyd.
15	M.P.V. Ramana	MR College, Vijayanagaram
16	P.Ch Sanjeeva Rao	Prof. Dept. of Civil Engg. RVR and JC College of Engg. Chowdavaram
17	P. Samatha Chowdary	Lecturer Dept. of Civil Engg. RVR & JC College of Engg Chowdavaram
18	V. Jaya	M.Sc M.phil HOD Botany, HinduCollege Guntur
19	Guru Swamy Revala	Asst. Prof. Vasavi College of Engg. Hyd.
20	K. Rajesh	Rahul College, Chirala
21	P.V. Nageswara Rao	Dept. ofGeology, ANU
22	D. Anish Kumar	Rahul College, Chirala
23	M. Nani	Rahul College, Chirala
24	G. Sudarsana Raju	Geology and Informatics YVU, Kadapa
25	G. Srinivasa Rao	Geology and Informatics YVU, Kadapa
26	A. Vamsi Krishna	Rahul College, Chirala
27	B. Nagendra	Rahul College, Chirala
28	K. Koteswara Rao	Rahul College, Chirala
29	R. Jithendra	Rahul College, Chirala
30	B. Sowjanya	Rahul College, Chirala
31	G. Rama Krishna	Lecturer in Zoology KRK Govt Degree College of Addanki
32	B. Ramesh Babu	Dept. of Mechanical Engg. Bapatla Engg. College
33	B.M. MuraliKrishna Rao	Director Ground Water Dept. Govt. of A.P. Hyd.
34	N. Srilakshmi	KRK Kgovt. Degree Collelge, Addanki
35	K. Jaya Raju	Govt. Degree College, Vinukonda
36	Mr. N. Tyaga Raju	BCAS College, Bapatla
37	Chebrolu Madhuri	P.G. Dept. of Chemistry VRS & YRN College, Chirala
38	A.V.V.S Swamy	Dept. of Environmental Sciences, ANU
39	J. Vishnuvardhan	Dept. of Environmental Sciences, ANU

40	S.S. Asadi	Dept. of Civil Engg. K.L University, Vaddeswaram
41	Ch. Hanumantha Rao	Dept. of Civil Engg. K.L University, Vaddeswaram
42	M. Anji Reddy	Dept. of Civil Engg. K.L University, Vaddeswaram
43	S.G.D. Khureshi	Mandal Resource person, Vetapalem
44	M.Sreedher Reddy	Asst. Prof. Dept. of Environmental Sciences YVU, Kadapa
45	E. Suneel Kumar	A.P.S.G.W. Dept., Hyd.
46	M. Raja Ambetkar	Asst. Prof. K.L. University
47	Ch. Sridevi	Asst. Prof. Ramachandra Engg. College, Eluru
48	Dr. S.S.R. Chidambarasastry	Lect. S.G.S College, Jaggayyapet
49	S. Ravi Kumar	Lect. In Geology, Hindu College, Guntur
50	A. Modhava Rao	A.P.St. Ground Water Dept. Vij.
51	K. Surya Narayana	M.R College, Vijayanagaram
52	Dr. P.A.N. Raju	M.R College, Vijayanagaram
53	M. Andy Andrews Babu	ITC, Chirala
54	M. Lakshmi Hema Bindu	Research Scholar Govt. Womens College, Guntur
55	B. Varalakshmi	Research Scholar Govt. Womens College, Guntur
56	A.V. Kavitha	Govt. Womens College, Guntur
57	P. Nirmala Kumari	Lecturer in Maths, Govt. College for Women, Guntur
58	D. Kalyani	Lecturer in Maths, Govt. College for Women, Guntur
59	G. Sankar Rao	Research Scholar Govt. Womens College, Guntur
60	B. Naga Malleswara Rao	Lecturer in Chemistry, Govt. College for Women, Guntur
61	Y. Sita Ramaiah	Lecturer in Geology, Govt. College for Women, Guntur
62	M. Kusuma Kumar	Lecturer in Sociology, Govt. College for Women, Guntur
63	K.P.P.R. Mohan Reddy	Lecturer in Chemistry, Govt. College for Women, Guntur
64	M.B. Ramana	Lecturer in Chemistry, Y.A Govt. College for Women, Chirala
65	K. Pratap	Lecturer in Chemistry, P.B.N. College for Women, Nidubrolu

66	B.V.H. Kameswara Rao	Asst. Prof. TJPS College, Guntur
67	S. Chandra Sekhar	Asst. Prof. St. Ann's College Chirala
68	D. Rudra	Head, Dept of Geology, Govt. College, Rajamandry
69	K. Venu Babu	Lect. In Physics, VRS & YRN College of Engg. Chirala
70	N Srinivasa Rao	Lect. in Geology, P.B.N College, Nidubrolu
71	Ryali Jithendra	Rahul College, Chirala
72	M. Krishna Chaitanya	Dept of Commerce, Chaitanya Bharathi, Chirala
73	G Hare Ram	Principal Incharge, Chaitanya Bharathi, Chirala
74	Marnipudi Asok	Asst. Prof. St. Ann's Eng. College, Chirala
75	Gummadi Sudhakar	Asst. Prof. VVIT, Guntur
76	P. Sankar Pitchaiah	ANU, Dept. of Geology, Guntur
77	K. John Paul	Prof. ANU, Guntur
78	G. Satya Jivan Rao	Hydrogeologist, State Ground Work Dept. Vij.
79	Y.V. Rathaiah	AMDDLE Hyderabad
80	P. Sarath Babu	Prof. ANU, Guntur
81	Dr. K Sivannarayana	Lect. In Chemistry, PAS College, Pedanandipadu
82	K. Singa Rao	Lect. In Chemistry, PAS College, Pedanandipadu
83	M. Radha Krishna Murthi	Lect. In Physics, PAS College, Pedanandipadu
84	Shamsi Sukrumaran	Lect. Albertian Institute of Mgt., Kochi
85	Yesmitha A Jain	Student Albertian Institute of Mgt., Kochi
86	P.V. Sethu Lakshmy	Student Albertian Institute of Mgt., Kochi
87	T. Padmavathi	Principal, SIMS College, Guntur
88	K. Chalamaiah	D.G.M Geology, Guntur
89	E. Archana	Asst. Prof. VRS & YRN College, Chirala
90	J. Nageswara Rao	Lect. In Zoology, Y.A. Govt. Degree College for Women, Chirala
91	K. Naresh Kumar	Lect. In Physics, BCAS College, Bapatla
92	T. Raja Rajeswari	Reader in Chemistry, Govt. College for Women, Guntur
93	M. Bhulakshmi	Student, Govt. women's college, Guntur

94	L. Mahalakshmi	Student, Govt. women's college, Guntur
95	K. Poorna Kumjari	Lect. In I.R. Y.A. Govt. College, for women, Chirala
96	P. Surendra Babu	Research Scholar VRS & YRN College, Chirala
97	K. Venu Babu	Lecturer, BCAS College, Bapatla
98	DR. Ch. Anjaneyulu	BEC, Bapatla
99	V.V. Haribabu	Sr. Lect. BEC, Bapatla
100	G. Papa Rao	Asst. Director Vigilence - Jedcherla, Mahaboobnagar District.
101	Dr. T. kChandra Sekhar	Asst. Prof. YVU, Kadapa
102	K Rajendra Rao	Lecturer in Geology Govt. College, Rajamandry
103	DR. Ch. Thandava Krishna	Asst. Prof. ANU Campus, Ongole.
104	Y. Narendra Babu	Lect. BEC Bapatla
105	Ch. Lakshmisrinivas	Sr. Lect. BEC, Bapatla
106	S. Krugan	Lect. BEC, Bapatla

VRS & YRN COLLEGE :: CHIRALA
National Seminar "Emerging Technologies in Environmental Science"
List of in house participants

S. No.	Name	Department
1	P. Venkateswarlu	Geology
2	Y. Ranganayakulu	Geology
3	B.V. Krishna Rao	Zoology
4	Y. Nageswara Rao	Zoology
5	Dr. T. Rosaiah	Commerce
6	P. Radha Krishna Murthy	Commerce
7	Y. Srinivasa Rao	Commerce
8	Y. Subba Rao	Botany
9	A. Srinivasa Rao	Botany
10	Y. Hanumanta Rao	Chemistry

11	Bala Subba Rao	Chemistry
12	P. Neerada	Chemistry
13	M.Brahmaiah	Economics
14	T. Sambasiva Rao	Economics
15	P. Dinesh Babu	English
16	T. Polaiah	English
17	P.S. Kiran Kumar	English
18	G. Ramesh	English
19	G. Ratna Papa	English
20	N.Venkata Rangam	Hindi
21	Y. Krishna Murthy	History
22	V. Purna Chandra Rao	Politics
23	J.Syamala Devi	Telugu
24	J.Anuradha	Telugu
25	D. Usha Rani	Mathematics
26	Y. Devi	Mathematics
27	G. Satish Babu	Mathematics
28	K. Jeswanth Kumar	Mathematics
29	G. Venkateswarlu	Psychology
30	K. Sukarna Babu	Physics
31	P.Gopinath	Physics
32	Y. Srinivasa Rao	Physics
33	M. Sivarama Krishna	Physics
34	P.V.S. Choudary	Physics
35	Ch. Subba Rao, P.D	Physical Education
36	T. Naganjaneyulu	M.Sc. Chemistry

On critical evaluation of the technical papers, the list of proposed themes are abridged in to IV sessions

	Papers Registered	Papers Presented
Session I (EIA and pollution & control technologies)	24	13
Session II (Resources & Sustainability and Environmental education& awareness)	28	14
Session III (Solid Waste Management)	38	25
Session IV (Environmental Geo informatics)	28	18

The following is the detailed list of papers selected for oral presentation. One Poster presentation was also received.

S. No.	Name of the Individual	Paper title
1.	M. Jayakumar Jacob	Biophilia, An empherical study on Suicides in State of A.P.
2.	B. Muralidhara Reddy	ABSTRACT _ Geo chemical, environmental impact assessment of barytes
3.	J. Abdullah Khan	ABSTRACT _Anthropogenic changes in Land use patterns and its influence on global change
4.	M. Jayakumar Jacob	ABSTRACT_ Value education for sustainable life style in Modern Technical world
5.	D. Janardhana Rao	ABSTRACT Clean Development Mechanism
6.	S. Mutta Reddy	Inventory and pollution control measures in LIMEKLIN
7.	Dr. V.V. Sailaja	ABSTRACT_ A solution to environmental problems
8.	G.Y. Setty & Sankara Pitchaiah	ABSTRACT_ Ground water contamination and remediation
9.	Ashok Marripudi	An overview on Green roof technology
10.	Sudhakar Gummadi	An overview on Green roof technology
11.	P. Surendra Babu	Master Plan for integrated solid waste management
12.	M. Vijaya Koteswari	Contriving Biodiversity Crisis
13.	P. Sanjeeva Rao	2 papers
14.	G. Janaki	Integrated GIS Database Development for Panchayat Level Planning to Aid Rural Area Development
15.	C. Ravindra Kumar	Ecological Footprint_What is all about

16.	G.K. Rama Ravi Teja	Pollution control technologies applied to coal fired powerplant operation
17.	B.V. Krishna Aditya	Pollution control technologies applied to coal fired powerplant operation
18.	Maneesh Mishra	Conservation of Biodiversity in the changing climate
19.	Vyshali	Hybrid Vehicles
20.	A. Jagruthi	Environmental effects of Nuclear power generation
21.	Sujata Lakshmi	Environmental effects of Ganesh idol immersion-remedies
22.	G. Ramya	Nuclear Power
23.	P.V.Ramana	Ground water condition for skimming and recharging the shallow aquifer in coastal sands of Guntur District
24.	M. Vishali	Abstract - "Effect of oil spills on the environment - solutions
25.	D.Sowjanya	
26.	P.Ch. Sanjeeva Rao	Status of Water Supply in Municipal Towns in Andhra Pradesh and Strategies for Sustainable Domestic Water Supply
27.	<i>Samatha Chowdary</i>	Drawbacks of environment impact assessment process in India
28.	Dr.P.A.N.Raju, Dr.U.P.N.Raju, Dr.K.Suryanarayana	Quality of ground water and it's impact on health hazards in Vizianagaram city, Andhra Pradesh
29.	V. Jaya, M Sc, M.Phil.,	Waste Management and Energy Recovery
30.	Guruswamy Revana	ABSTRACT_Environmental Impacts of PV Electricity Generation - A critical comparison of Energy Supply options
31.	K.Rajesh,D.Anish Kumar, M. Nani	ABSTRACT- Environmental Geo informatics
32.	P.V. Nageswara Rao	Abstract environmental and seismic threats for eastern India caused by submarine earthquakes – a focus on Indian ocean seismicity
33.	G.Sudarsana Raju, G.Sreenivasa Reddy	Assessment of Groundwater quality in Muddanur mandal of Kadapa district, Andhra Pradesh
34.	Sarathbabu . P, John Paul. K and Sankara Pitchaiah. P	Abstract _ geo-environmental studies on naguleru sub - basin of Guntur Dt.
35.	K. Jaswanth Kumar	Environmental education and Awareness
36.	A.Vamsikrishna, B.Nagendra , K. Koteswara Rao.	Abstract _ Plastic Pollution
37.	R. Jithendra, B. Sowjanya	Abstract_ waste management in India
38.	Erapani. Archana	PPT_ Environmental impact assessment
39.	G.Rama Krishna	Solution to plastic pollution

40.	B. Ramesh Babu	A Green light to plastic waste
41.	B. Ramesh Babu	Abstract_A green light to plastic waste
42.	<i>B.M. Murali Krishna Rao, N.Srinivasu & E.Sunil Kumar</i>	Ground water resource estimation in Prakasam Dt.
43.	Dr. V.V. Sailaja	A solution to environmental problems
44.	N.Srinivasa Rao, Chiranjivi Jayaram, T.V.S. Udaya Bhaskar, B. Samba Siva Rao, E.Pattabhi Rama Rao and S S C Shenoi	Abstract_Fresh water plume tracers in Bay of Bengal – A remote sensing perspective
45.	<i>Sarathbabu . P , John Paul. K</i>	Geo environmental studies on Naguleru sub basin of Guntur Dt
46.	N. Srilakshmi	Biotechnical solutions for pollution
47.	Dr. K. Jaya Raju,	Solid Waste Management
48.	Mr. N. Tyaga Raju	Solid Waste Management
49.	Chebrolu Madhuri	Solid Waste Management
50.	AVVS SWAMY and J. Vishnuvardhan	Bioplastics: An ecofriendly choice for a Sustainable development
51.	P.V. Sethu Lakshmi	A wakeup call to protect mother nature_ Environmental awareness
52.	Yeshmita A Jain	Environmental education and Awareness
53.	SS ASADI, Ch. Hanumantha Rao, M. Anji Reddy	Analysis and Interpretation of Groundwater Parameters Using Remote Sensing and GIS :a Case Study
54.	Dr. V.K. Bhaskararao	Environmental Degradation
55.	Rathaiah, Y.V., Rao, M.N., Deshmukh, R.D., Chandrasekaran, S and Parihar, P.S	Grain size characters of sands and heavy minerals of Pandurangapuram –Vodarevu Coast
56.	M. Lakshmi Ratna Kumari , A.V.N. Varalaxmi	Green IT
57.	DR. G. Bhuvaneshwari Lakshmi, Dr. V.V. Sailaja	A study of Environmental attitude of prospective secondary school teachers of Prakasham District
58.	Ramisetty Sangeetha, K. Ramya	E waste management in India
59.	B. Srinivasa Rao	Environmentally sound management of e waste
60.	Dr. T. Chandra Sekhar	Environmental risk assessment of genetically modified
61.	V. Rekha , T. Ramaswamy	Pollution control technologies
62.	B. Phani Kumar, N. Srinivasa Rao, M. Suresh	Environmental effects of E waste and recycling

63.	Yarlagadda Rattaiah	Abstract_Grain size characters of sands and heavy minerals of Pandurangapuram –Vodarevu Coast,
64.	J. Chandrasekhara Rao	Role of Man in Nature: Past Present and Future
65.	B. Srinivasa Murthy, J. Phani Kishore,P. Uma Maheswara Rao	Vegetable Oil Industrial Waste Management
66.	Dr. Ch. Anjaneyulu, Dr. V.V. Hari Babu	Trace Elemental Analysis of Soil Samples in And Around Visakhapatnam By Pixe Method
67.	T. Polaiiah	Environmental education and Awareness
68.	Ms VV Prasad, Ch.Manasa	Efficiency and Innovation for Sustainable Information Technology in the 21st century
69.	M. Sandeep Kumar, M. Vijaya Durga	Air Pollution
70.	D. Guna Sankar, K.V. Maneesh, Jagadeesh	Role of teachers in environmental protection
71.	G.Ramesh Babu, K. Ravi Kiran Yasasmi	Environmental education and Awareness
72.	P.V. Durga Rao, D. Venu Babu	Pollution and control technology
73.	A.ANUSHA, M. Naga gopi nath, G. Pransannajaneyulu	Solid Waste Management
74.	T. Adilakshmi, Vishnu Priya	Traditional knowledge and management of natural resources
75.	J. Abdullah Khan, V. Suneetha, M. Ramakrishna Reddy	Anthropogenic Changes in Land use patterns and its influence on Global Change: Implications to Natural Resources Assessment
76.	Krishna Kanth Mutte	E waste management in India
77.	M. Krishna Chaitanya	Urban Solid Waste Management
78.	Nagaraju	Environment Pollution
79.	Y. Sita Ramaiah, M. Kusuma Kumari	Importance of Environmental education and Awareness
80.	Jhansi Rani	Resources and Sustainability
81.	T Adi Lakshmi,B. Vishnu Priya	Traditional Knowledge and Management of Natural Resources
82.	S. Chandra Sekhar, B.V.S. Kameswara Sastry	Trends in Environmental Accounting and Reporting
83.	<i>B.M.Murali Krishna Rao¹, N.Srinivasu² & E.Sunil Kumar³</i>	Groundwater Resource Estimation in Prakasam District of Andhra Pradesh

Invitation Letters with detailed programme besides technical session details were posted to all the addressees to whom the calls for letters were posted.

The inauguration of the conference was begun at 10 A.M in SS & JSP auditorium on 22/10/10. The chief guest of the inaugural day was Dr. K.M. Reddy, Director General, APSRAC, Hyderabad. The other guests of honours are:

- Sri VV Ramachandra Vasu** President of College Committee
Smt J. Lakshmi Bhavani Secretary & Correspondent of College Committee
Prof. K. Mukkanti Director, Institute of Chemical Science and Technology, Hyd.
Sri E. Satyanarayana Environmental engineer, APPCB, RO, Nellore
Sri B.V. Krishna Rao Principal, VRS & YRN College, Chirala
Sri Dr. P. Venkateswarlu Organising Secretary of the Conference.

The inaugural programme started with invocation by students and followed by Jyoti Prajwalana by all the dignitaries on the Dias as a traditional mark of inauguration of the Conference.

INAUGURAL FUNCTION

Dt.22-10-2010

10.00 A.M

1. Welcoming the guests to the dias.
2. Prayer – A. Anusha, B. Vishnu Priya , & T. Prabhavathi M.B.A II Year students.
3. Jyothi Prajwalana by the guests on the dias.
4. Welcoming speech by the Principal & Convener of the conference Sri B.V. Krishna Rao Garu.
5. Aims and objectives of the seminar by the Organizing Secretary DR. Perni Venkateswarlu Garu, Reader, Department of Geology.
6. Speech by the Guest of Honour – Sri. E. Satyanarayana Garu, Environmental Engineer, Andhra Pradesh Pollution Control Board, Nellore.
7. Speech by S.A. Khadar Saheb Garu – Municipal Commissioner, Nandyala Municipality, Nandyala.
8. Speech by President Sri V.V. Ramachandra Vasu Garu.
9. Speech by Secretary & Correspondent Smt. J. Lakshmi Bhavani Garu.
10. Speech by DR. K. Mukkanti Garu, Director, Pharmaceutical Science, JNTU, Hyderabad.

11. Speech by the Chief Guest DR. K.M. Reddy Garu, Director General, Andhra Pradesh State Remote Sensing Application Centre, Hyderabad

12. Presentation of Mementoes.

13. Vote of Thanks by B. Srinivasa Rao, HOD, P.G. Dept. of Computer Applications.

All the guest of honors spoke on the occasion. The inaugural oration was given by the Chief Guest **Dr. K. Mrityunjaya Reddy** .

The aims and objectives of the conference are illustrated by Dr. Perni Venkateswarlu, Organizing Secretary of the Conference. After the vote of thanks, the gathering was given a break for High tea and reassembled after 30 minutes for the Inaugural Keynote address by the Director General, APSRAC (Dr. K. M. Reddy) on **Disaster Management through Geo Informatics**. At the end of the address an interactive question session took place for over five minute before the house closed for lunch at 1.45 pm.

After the Lunch, the technical **Session- I** commenced with

Chair person _ **Dr. M. Venkateswara Rao**

Rapporteur: **Dr. V.K. Bhaskara Rao**

Lead talk by **Prof. K. Mukkanti** on the topic “ **Pollution and Control technologies**”. The salient aspects of technical session I Paper presentations are as detailed below:

REPORT ON THE TECHNICAL SESSION – I

The first technical session of the two day National Conference on Emerging Technologies in Environmental Science was chaired by Dr. M. Venkateswara Rao, Scientist from National Remote Sensing Centre, Hyderabad. He was introduced to the delegates by Ms. Anusha Khan, B.Tech final year student of VRS & YRN College of Engineering & Technology. Dr. Rao initiated the session by explaining the ill effects of environmental imbalances and the need for taking controlling measures to combat environmental degradation. Dr. K. Mukkanti, Director, School of Pharmaceutical Sciences of JNTU Hyderabad was introduced by Dr. B. Radha of P.G. Dept. of Commerce delivered the lead lecture. Dr. Mukkanti has discussed in detail on the environmental problems in his power point presentation and he dealt in depth how pollution is caused and sources of various types

of pollution which disturbs eco system and the environmental stability. He was specially mentioned the Bhopal Gas tragedy of December, 1984 which was said to be one of the worst tragedies of 20th century. While discussing the problem of environment, Dr Mukkanti also suggested to adopt eco friendly techniques and ways to protect and preserve better environmental and everyone should take responsibility in the task of keeping environment free from disturbances and drawbacks. He made an appeal to use bicycles and public forms of transport by avoiding automobiles thereby oil consumption can be reduced and air pollution could be curbed. He also touched upon the problems water pollution and how water is polluted and its effects on the health of the people and he made certain suggestions to make water pollution free by avoiding chemical treatment process. Dr Mukkanti advised the delegates to think globally and act locally and exported the need for promoting environmental education among the people.

About 24 papers have been received for the first session and 11 papers were presented at the seminar, the first joint paper of Mr. P. Sarath, a Research Scholar, Dr. John Paul and Prof. Sankar Pitchaiah of Department of Geology Acharya Nagarjuna University, titled Geo-Environmental studies on Naguleru Sub Basin of Guntur District was presented by Mr. Sarath in a power point presentation. The paper has light graded on the aspects of rain fall, climatic changes, fertility of the land soils study i.e. black soil and red soil and the effect of lime stone and its plants on the environment in Guntur District.

The second paper titled “Inventory and Pollution Control Measures in Lime Kiln” was presented by Dr. S. Mutta Reddy, Reader in Chemistry from Govt. College for Women , Guntur. In his paper, Dr. Reddy stressed the problem of toxic emissions from the lime plants located in different places. These toxic air pollutions are suspected to cause serious health hazards for the employees working in the plants. Though the environmental protection agency has issued certain rules to reduce the toxic air emission, they are not strictly implemented. He has suggested ensuring continuous monitoring of these factories by the concerned authorities so as to ensure the health of the workers.

The third paper titled “Environmental control technology” was presented by Mr. N. Satish, II year students of M.Sc (Oils & Fats) of VRS & YRN College. Mr. Satish has discussed the growing concern for the environmental problem. He has observed that rapid growing population today is putting a strain on environment, infrastructure and the natural resources. He was of the view that industrial pollution, soil erosion, deforestation,

rapid industrialization, urbanisation are all worsening problems due to environmental imbalances.

The fourth paper titled “Drawbacks of Environment Impact and Assessment process in India” was presented by Ms. Samatha Choudary, lecturer in Civil Engineering of RVR & JC College, of Engineering, Guntur. She has discussed in her paper the problem of environmental impact and how this impact could be properly arrested. She has suggested to adopt guidelines and techniques which are suitable for Indian conditions and local, situations for the assessment process instead of following the guidelines of USA and other developed countries.

The fifth joint paper of A. Vamsikrishna, B. Nagendra and K. Koteswara Rao of Rahul Institute of Pharmaceutical Sciences and Research Chirala titled ‘pollution’ was presented by Mr. A. Vamsi Krishna. This paper has analyzed the problems of plastic pollution nature in his power point presentation. He explained how plastic pollution effects the land and enter into the drainage system are severely causing inconvenience and health problems for the people. Even the animals were not being spared from plastic pollution and effects would be disastrous. He suggested curing plastic and going for bags made of cloth and jute.

The sixth paper, jointly written by DR. B. Radha, P.G. Dept. of Commerce and PVS Chowdary of Dept. of Physics of VRS & YRN College titled “Global Warming and Kyoto Protocol – A growing environmental problem” was presented by DR. B. Radha. In her paper, she has highlighted the greenhouse effect, Kyoto protocol and emerging gases and fuels and how companies could manage their energy resources and maximize the opportunities available with better environment. The very phrase Kyoto protocol has become synonymous with the objective of saving the planet from the global meltdown. She has suggested that emissions of green house gases must be reduced to prevent global warming.

The seventh paper titled “Air Pollution” was jointly presented by M. Sandeep Kumar, Assistant Professor, RISE Engineering College and M. Vijaya Durga, III B.Sc student of Bharati Degree College Chirala. They had identified some sources on which the pollution generates and the main pollution according to her is from transport system. They suggested to have certain pollution curbing methods to ensure better environment.

The eighth paper jointly written by PV Durga Rao, Faculty of P.G. Dept. of Mgt. Studies and D. Venubabu an MBA student of VRS & YRN College titled “Pollution and Control Technology” was presented by Mr. Venubabu. The paper has highlighted on the

types of pollution like air, water, soil and smoke pollution and the ill effects of pollution on society. He has suggested control devices to have some remedy on pollution problem and that vegetation should be encouraged by all to have a better situation in the environment.

The ninth paper jointly written by Ms. V. Rekha and T. Ramaswami, MCA final year students of VRS & YRN College titled “Pollution and Control Technologies” was presented by Ms. Rekha. In her paper, she discussed the emerging sources of the problem mainly from air, water, thermal, noise and light pollution. Pollution problems, according to her are causing instability, disorder and discomfort to the entire eco system of the society. She has suggested certain pollution control technologies like dust collection, system, sewage treatment method and emphasize the necessity to adopt modern technologies for a pollution free future.

The tenth paper titled by “Environmental Education – A solution to environmental problems” was presented by Dr. V.V. Sailaja, Principal SPMH College of Education, Machilipatnam. Dr. Sailaja has stressed the importance and role of environmental education which is described to be an organized effort of all stakeholders in the country. She has highlighted some imperatives of environmental education and the role of the sort in promoting and educating the people on this problem. She suggested to print appropriate materials and books on environmental and disseminate among the masses. Environmental aspects should be incorporated in the curriculum of school and college education so as to ensure that students will have complete awareness on environmental issues. Print and electrical media should be fully utilized to popularize environment education as a real remedy for all the ill effects of environmental destabilization.

Eleventh paper titled “Environmental Impact in Forest Protection” was presented by Mr. M. Sridhar Reddy of Yogivemana University, Kadapa. In his paper, Mr. Reddy has identified certain threats and problem for ecological balance of environment and discussed the ill effects of giving permissions indiscriminately to the establishment of industries even without environmental clearances and this has led to many number of problems to the residents of near by industries and factories particularly in metropolitan cities which ultimately cause health hazards for the people. He suggested that the government should be session about this problem and industries should allowed to function away from cities and towns to have a better environment for the people only there by attaining sustained development on all fronts.

Technical Session II

On completion of Technical Session I the gathering take break for 15 minutes for tea and snacks and reassembled to start the **technical session II.**

Report on Technical Session II

Chair person **Dr.K. Mukkanti, JNTU, Hyderabad**

Rapporteur: **Dr. J. Revathi**

Lead Talk : Sri Khader Saheb, Commisioner, Nandyala Municipality gave a lead talk on **Solid Waste management**(Zero garbage municipality).

The technical session II was comprised of 28 papers and only 14 participants presented their report.

The first paper titled “Environment and Tourism” presented by Dr. A. Satish Babu and Dr. N.J. Bhushanam, PG Dept. of Commerce, VRS & YRN College has made an attempt how to preserve the environment and at the same time developing tourism in the emerging economy. He discussed about site development criteria, environment criteria and economic criteria and how to preserve the environment in the scenario of drastic changes in the ecological balance of the environment for the promotion of tourism.

The next paper by K. Jaswanth Kumar, Maths Lecturer of our College discussed about environmental education and awareness. He discussed that environmental education is compulsory for all human beings and it affects all living organisms. He conclude that due to environmental education a safe and healthy environment for mankind persists and he says that environmental awareness should start from each and every individual.

The next paper by M. Jayakumar Jacob on “Biophilia” discusses about the lone of life. He says that nature never lacks its own law. He point out the art of living, long living, Universal judgment , Green Ghosts, Global warming, Acid rains, deforestation, ozone depletion etc. He conclude that Mind management is essential.

The next paper was by Dr. V.K. Bhaskara Rao garu, Reader, PG Department of Commerce of our college on “Environmental Degradation”. He discussed about the environmental degradation in the deterioration of earth’s natural resources and surroundings as a result of excessive exploitation of the available resources . He discussed about various causes of environmental degradation like resource exploitation, growth of population, air and noise pollution, global warming, deforestation, lack of concern and use of pesticides etc. We concluded that the best way to arrest environmental degradation is to insure major

participation of all people and NGO's and finding out meaningful ways and to change the mindset of the people towards environmental protection.

The next paper was by Dr, K. Suryanarayana from Dept. of Geology, Vizianagaram. He discussed on Hazards in Vizianagaram City. He has done a detailed study on the ground water quality taking 53 samples in Vizianagaram city. He found that excessive of Chlorides, Nitrates, Sodium, Potassium, Magnesium and Sulphates result in to hyper tensions, kidney problem, joint pains etc. Finally he conclude that hardness in ground water is also a reason for health problem. To up tone the ground water quality and water levels, recharge techniques like rain water harvesting and rehabilitation of old tanks in the area are required.

The next paper was by P.V. Sethu Lakshmi, Alberian Institute of Management, Ernakulam on "A wake up call to protect mother nature - Environmental awareness". She discussed that there should be fundamental changes in the people and society for sustaining environment. We should establish policies, programs and practices for sustaining environment. She also suggested to spend more and more funds on research for promoting environment sustainability. An environmental plan Do-Check was analysed. She presented an example of Godrej company which is free from environmental pollution. She concluded that fundamental change in the society will achieve environmental sustainability.

The next paper was by Yeshmita A Jain, Algerian Institute of Management, Kochi on environmental education and awareness. She discussed the goals to protect the environment, the Green Peace International. She enlightened about education about environment, education from environment and education by environment. She concluded that people should stop the activities that are not friendly to environment and industries enforced to change the policies.

Next paper was by VV Prasad & Ch. Manasa, III MCA Students of our college on "Efficiency and innovation for sustainable information". He applied the role of computers and energy released in the computer which are pollutants. He suggested for free pollution computers. Green Information Technology. It is a study of designing, manufacturing, using and disposing of the computer. He also discussed about the importance of the Green Information Technology which is a new concept.

Next paper by Sri D. Guna Sankar, Maneesh, Associate professors and Jagadish, Student of M.B.A on "Role of teachers in Environmental Protection". They have concluded that environmental education should inform teaching in schools and colleges and should be integrated in the entire education process.

Next paper by G. Ramesh Babu, K. Ravi Kiran and Yasasmi, PG Department of Mgt. Studies of our college on Environmental education and awareness. They have discussed about the awareness programmes to protect the environment . He has suggested several formal and informal education systems.

Next paper by Sri S. Krishnarjuna Rao Garu, N. Venkata Rangam and P. Prasad Goud of our college on “Climatic Change – A Global issue”. He discussed that climate change and global warming are the main issues and challenges to the whole world because their effects are disturbing lives on the earth. Therefore awareness among the people should be created to develop EECY improvements, replacement of conventional fuels by cellulogic bio fuels and eco friendly living culture.

Next paper is by T. Padmavathi, SIMS College of education, Guntur on” Environmental Education Program at primary level”. She concentrated on educating children from primary level. She concentrated on educating children from primary level about sanitation polluted water taking contaminated food. Children should be educated about the things to do and not to do. Taking proper medical care, giving balance diet to the children on educating the children from primary level about the different activities to reduce pollution and making the children to do Vow’s every day etc.

Next presentation was by Dr. A. Madava Rao about ground water conditions for skimming he discussed about the water pollution in different areas of Bapatla, Karlapalem, Suryalanka etc., he conducted surveys on deterioration of water he reflected 50 samples and concluded about the reasons for deterioration of the drinking water.

The Next presentation is by B. Nagamalleswara Rao on pollution technique he concentrated that it is the primary duty of citizen to protect the environment. He has suggested several non pollution techniques.

Technical Session III

On 23rd Morning at 10 A.M. , the technical **session III** began with

Chair person _ **Dr. V.K. Bhaskara Rao**

Rapporteur: **Dr. N.J. Bhushanam**

The key note address was delivered by **Dr. M.V.Rao** in which he explained about Geomatics and about Coastal resources with regard to India and world. He also suggested methods to manage Coastal Zone effectively.

Mr. R.Guruswami and R. Sujatha Laxmi jointly displayed and explained about the environmental effects of Ganesh idol immersion and remedies.

R. Jithendra and B. Sowjanya, 4th year students of B.Pharmacy Rahul institutes of Chirala in their paper titled “Solid Waste Management in India” explained about the current scenario of waste management in India like hazards waste determination and waste minimization.

G. Ramya, M. Spandana and A. Jagruthi, 3rd EEE Vasavi College of Engineering, Hyderabad in their joint paper titled “Environmental effects of Nuclear Power generation” discussed at length about the potential advantages and disadvantages of nuclear power generation.

Y.V. Rattaiah, atomic mineral division Hyderabad in his article titled “Grain Size Characters of Sands and heavy minerals of Pnadurangapuram – Vodarevu Coast, Guntur and Prakasam districts, Andhra Pradesh “ explained how to collect grain size data of heavy minerals.

Dr. K. Jaya Raju, GDC, Vinukonda and Mr. N. Tyaga Raju, BCAS, Bapatla in their joint paper titled “Solid Waste Management” have explained meaning of solid waste and source causes and effects of solid waste pollution and its impact on environment.

M. Vyshali and D.Sowjanya 3rd EEE, Vasavi College of Engineering, Hyderabad in their joint article titled “ Effect of Oil spills on environment” and its impact on human activity and suggested solutions to prevent spills of oils.

Miss R. Sangeetha and K. Ramya 2nd MCA VRS & YRN College, Chirala, in their paper titled “e-waste management in India explained about e-waste and its problems, global trade issues and benefits of recycling of e-waste.

Miss V. Anusha and B. Sowjanya final year B. Pharmacy of Rahul College of Pharmaceutical sciences, Chirala in their joint paper, water scarcity effects – 2070.Explained at length about the availability of water and its preservation for future generations.

C. Archana, Asst. Professor, Department of Chemistry, VRS & YRN College of engineering and Technology in her article titled “Environmental impact – Assessment” discussed the environmental impact and method of its assessment.

Dr. Ch. Anjaneyulu from Bapatla Engineering College, Bapatla and Dr. VV Hari Babu, Department of Nuclear Physics, in their joint paper titled “ Trace elemental analysis of Soil samples in and around Vishakapatnam by Pixe method”, narrated about taking samples in HPCL area.

Sri N. Apparao, a retired ILTD employee presented a paper “Old and Ancient Environmental effects” and concluded that there is a need for environmental education from Primary education.

Sri B.Phani Kumar, HOD, Department of Statistics and N. Srinivasa Rao, Lecturer in Computer Science jointly presented a paper with the help of I B.Sc Student M. Suresh titled “ E-waste and Recycling” and they concluded safety methods of recycling a computer with out effecting the environment.

Technical Session IV

After Lunch Break, the delegates reassembled for technical session IV at 2.00 P.M.

Chairman: Dr A Madhava Rao M. Sc., Ph.D

Rapporteur: Dr P Ch Sanjeeva Rao M. Sc., Ph.D.

Ashok Marrisudi has presented the different green solutions that save lot of energy for lighting and ventilation in his paper on Green Roofing Technologies. J Abdullah Khan has summarized that anthropogenic activities are increasing at alarming rate and they are impacting global environment. The land use patterns are adversely affecting and future of the globe is bleak.

Janaki Gattu in her paper on Integrated GIS for development presented the role of GIS and Geo informatics for resources development and development planning. Nowadays different disease and their causes are related as the influence of environment.

Some of the disease like cancer etc, how they are spreading in society is explained by Ramya and Tejeswani in their paper on Environmental health.

M Lakshmi Ratnakumari in paper on Green IT narrated the impact of IT use on the environment. The recycling of obsolete computers is preferred to renovation, product development that use less energy, the operating system and programs that use less energy are the some of the solutions suggested to reduce the impact of IT usage on environment .

K Rajesh has explained the benefits of Geoinformatics in his paper on the Environmental Geoinformatics. Resources management such as urban planning, land use, transportation network planning are the areas benefited by the Geoinformatics.

A paper on Traditional management of nature is presented by Adilakshmi explaining the importance of traditional methods for sustainable development.

Dr T. Rajeswari in her paper on Environmental Education and Awareness narrated the importance of public education awareness. For proper balance to ensure sustainable development the knowledge, skills, attitude, motivation and commitment to work individually and collectively towards solving the environmental problems is needed as she explained.

Sahiti in her paper on pollution control technologies explained different pollution control technologies. Solid waste management need greater attention aftermath of Surat plague, Sai Sirisha demonstrated the different solid waste management methods through appropriate visuals.

Natural disasters are not uncommon but the ways manmade disasters are created are explained are presented by Jyothsna in her paper Disasters ahead. Due to domestic and industrial use on large scale water is getting polluted and causing lot of problems to nature and health.

Ch.Bhulakshmi explained the way how water is increasing getting polluted and the measures to be taken to control water pollution.

Prudhvinath in his paper explained causes, effects and remedial measures to control noise pollution.

Novel Solid waste management methods are explained by Ch Madhu.

E waste is creating new problems which are explained by M Krishna kanth.

G Anil Kumar, Lecturer in English presented the necessity of Environmental awareness and also presented the way how one can involve in up keeping the environment.

G Srinivas Kumar showed the fresh water plumes in bay of Bengal through imageries after the cyclone Lila. Remote sensing is an important tool for natural resources management as he explained.

The session has papers with note worthy contribution. The results observed are presented here with. Ramya and Tejaswani related the diseases and environmental activities of human beings. The methods suggested can be used for prevention of many diseases. Environmental Education, awareness is important for balanced development. The skills, attitudes, motivation and commitment to work is individually and collectively is need of the hour. This can achieved by using various schemes like National environmental Awareness Campaign, ENVIS Centre on Panchayat Raj and Environment. The Globe Program, Water Quality monitoring of River Yamuna and Awareness Building program in schools. Capacity building for hands on Environment learning program under Environment Education in Schools systems, National green corps as explained by Dr T. Rajarajeswari. G Srinivas kumar in his paper explained how fresh water resources are moving with out mixing in marine waters. The way how remote sensing data used for resources management is exemplary. Green IT paper of Lakshmi Ratnakumari proposed the way how impact on environment can be reduced by upgrading the old computers without going for new one, she also suggested the availability of operating systems that use less amount of energy so that carbon emissions can reduced.

Special Lecture

A special lecture was arranged on “Role of Earth Science in Environmental Management” with **Professor.P. Sankara Pitchaiah** and **Prof.John Paul**, Department of Geology, Acharya Nagarjuna University, Guntur .

A special interactive session was arranged for B.Sc I, II ,and III year Geology students with Acharya Nagarjuna University professors on **Career Prospects for Earth Science Graduates and Post Graduates.**

On completion of technical sessions, the delegates are assembled in the auditorium to participate in the panel discussion convened by the Conference Organizing Secretary with Session Chairmen and Rapporteurs . The deliberations in the panel discussions have resolved to concur with certain technological solutions spelled by the delegates during their submissions.

The following are the salient conclusions of the Conference.

Conclusions:

- To manage, mitigate and forecasting natural hazards like cyclones and floods, the advantages of mathematical models developed by APSRAC, Hyderabad are widely welcomed by the delegates. Also felt the dire need for GIS based decision support system besides Telemetry for disaster management.
- The innovative technology which acts as a catalyst in enhancing the melting point of bitumen with plastic waste and there by strengthened the road

construction but also increased the road life as well will help to improve the environment and also creating a source of income .

- Many delegates welcomed the technical advantage that polymer blended Bitumen showed higher softening points, lower penetration points and better ductility. Unanimity is being expressed in identifying the importance of clean development mechanism (CDM) as a strategy to involve the top managements of the respective industrial units in the voluntary implementation of the Kyoto Protocols main objective of mitigating the GHG's.
- The problem of over exploitation of ground water resulting in upconing of salt water from bottom as well as from lateral directions are discussed. Large scale rain water harvesting on scientific lines utilizing the heavy run off and construction of battery of recharge wells near the coast has been suggested for improving the ground water regime and preventing the sea water ingress in the East Coastal aquifers. The deliberation also focused on the drawbacks of Environmental impact Assessment process in India and felt the need for an independent EIA authority headed by a judicial officer and comprising of representation from communities, peoples group, Scientists, Sociologists and environmentalists.
- Technologies viz., Anaerobic digestion, incineration, Pyrolysis, Land fill gas recovery are considered as worth to adopt for setting up waste to energy projects.
- Inertisation of municipal Solid waste through aerobic composing technique is considered one of the best techniques in Solid Waste management.
- Sustainable, eco friendly and cost effective "Green Roofing Technology" is focused as a good solution to reduce considerably the habitat radiation levels.

Feed Back

The feed back received from the delegates was very positive and quite encouraging. Over 95% of the delegates expressed that the focal theme of the conference aptly suits to the present day society needs. 64% viewed the invited talks as innovative. 48% felt the hospitality as excellent and 47% viewed the hospitality as good. Above 64.28% expressed their satisfaction about inter active sessions. Nearly 66.66% opined that the conference went on as per Schedule. As regards to quality of Seminar Material 47.61% felt excellent and 38% felt good. Over 88% expressed happy over the usefulness of the conference. 58.33% expressed the obvious understanding of the presentations and 5.9% expressed their difficulty in understanding the presentation. Almost 99% gave a unanimity regarding conducting of similar conferences by the institute in future. 21.4% of the delegates rated the organization of this seminar as excellent and above 76% felt good.

As a whole the feed back is quite good and encouraging.

The valedictory function was conducted with the certificate presentations to all the delegates. Prizes were given by the Chief Guest to the first, second and third best papers.

Prof.K.Viyanna Rao, Vice Chancellor i/c, Acharya Nagarjuna University, Guntur was the Valedictory Chief Guest. The valedictory programme is as follows:

VALIDICTORY SESSION

Dt.23-10-2010
3.30

P.M

1. Invitation of the Guests to the dias.
2. Welcome address by the Principal & Convener of the conference Sri B.V. Krishna Rao Garu.
3. Conference Report by the Organising secretary DR. P. Venkateswarlu Garu, Reader, Dept. of Geology.
4. Panel Discussion – Rapportours Reports
 - I. Dr. V.K. Bhaskara Rao, HOD & Reader, P.G. Dept. of Commerce.
 - II. Dr. J. Revathy, Reader, P.G. Dept. of Commerce.
 - III. Dr. N.J. Bhushnam, Reader, P.G. Dept. of Commerce
 - IV. Dr. Sanjeeva Rao, Vizianagaram.
5. Valedictory address by Dr. M. Venkateswara Rao Garu, Scientist, NRSC, Hyderabad.
6. Release of the conference by the Vice Chancellor Prof. K. Vijjanna Rao Garu and other .
7. Speech by the Secretary & Correspondent Smt. J. Lakshmi Bhavani Garu.
8. Introduction of the Chief Guest Prof. K. Vijjanna Rao Garu by Dr. B. Radha, Reader, P.G. Commerce.
9. Valedictory Speech by the Vice Chancellor Prof. K. Vijjanna Rao Garu.
10. Awards presentation to the best three papers presentations among student participants by the Vice Chancellor.
11. Presentation of mementoes to the guests.
12. Presentation of mementoes to the Organizers from Prof. K.V. Rao Garu.
13. Vote of Thanks by B. Srinivasa Rao, HOD, P.G. Dept. Of Computers Applications.
14. National Anthem.

Received Messages from the following dignitaries expressing their good wishes for the successful completion of the Conference.

1. Dr. G.Srinivas, Joint Secretary, UGC, Hyderabad
2. Prof.Dr. K. Viyanna Rao, Vice Chancellor i/c, ANU
3. Prof Y. Anjaneyulu, Jackson State University, USA
4. B.M. Murali Krishna Rao, Director, AP State Ground Water Department.