

FATIMA MATA NATIONAL COLLEGE

AUTONOMOUS

(Reaccredited with 'A' Grade by NAAC)
Affiliated to University of Kerala



6.3.3 Report 2014-15

IQAC INTERNAL QUALITY ASSURANCE CELL

Report of the One Day Seminar
Green Chemistry-Environmental and Economic Benefits

24-06-2014

Organized by

Department of Chemistry

Fatima Mata National College, Kollam

In Association with

Academy of Chemistry Teachers (ACT)

Sponsored by

**KERALA STATE COUNCIL FOR SCIENCE, TECHNOLOGY AND
ENVIRONMENT**

Sasthra Bhavan, Pattom Palace P.O., Trivandrum-695 004

Report of the One Day Seminar
Green Chemistry-Environmental and Economic Benefits

24-06-2014

Fatima Mata National College was established in the year 1951 by His Excellency Rt. Rev. Dr. Jerome M Fernandez with view to providing facilities for the higher education in the Diocese of Quilon. This year the college is celebrating its 63rd year of committed service in the field of higher education. The department of Chemistry was started as under graduate department in the year 1952. Later in 1993 BSc Polymer Chemistry was started. In the year 1995 the department was elevated to post graduate department. Recently in the year 2013 the University of Kerala has approved the Department as Research Centre.

The Department of Chemistry, Fatima Mata national College, Kollam has conducted a state level one day seminar on “Green Chemistry-Environmental and Economic Benefits” in association with Academy of Chemistry Teachers (ACT) on 24th June 2014. This seminar is financially supported by Kerala State Council for Science Technology and Environment (KSCSTE). The sessions were handled by two eminent resource persons, Dr. KN Rajasekharan (Former Head of the Department of Chemistry, University of Kerala) and Dr. IG Shibi (Associate Professor, Department of Chemistry, SN College, Chempazhanthy)

The seminar was started at 9.30 am with a short inaugural function. Prof. George Paul (Head of the Department of Chemistry) welcomed the gathering. Dr. Sr. Soosamma Kavumpurathu (Principal, Fatima Mata National College, Kollam) presided over the function. Prof (Dr.) KN Rajasekharan (Former Head of the Department of Chemistry,

University of Kerala) formally inaugurated the seminar by lighting the traditional lamp. Dr. Sr. Soosamma Kavumpurathu (Principal, Fatima Mata National College, Kollam) released the Proceedings of the seminar by handing over the copy to Prof (Dr.) KN Rajasekharan (Former Head of the Department of Chemistry, University of Kerala). Dr. IG Shibi (Associate Professor, Department of Chemistry, SN College, Chempazhanthy) and Dr. Wilma Cyril (former Head of the Department of Chemistry) offered felicitation. Dr. Manohar D. Mullassery (Organizing Secretary) delivered vote of thanks.

The forenoon session was handled by Prof (Dr.) KN Rajasekharan (Former Head of the Department of Chemistry, University of Kerala) and the afternoon session by Dr. IG Shibi (Associate Professor, Department of Chemistry, SN College, Chempazhanthy). The seminar was attended by 130 students and 29 teachers from various colleges. Articles were invited for poster presentation and received 23 articles. The seminar was highly informative and beneficial to all. The seminar concluded at 3.30 pm.

List of Participated Students

Fatima Mata National College, Kollam		
Serial No.	Name of Student	Class
1.	Julie Johnson	I MSc Chemistry
2.	Alex Antony	I MSc Chemistry
3.	Divya L	I MSc Chemistry
4.	Nijitha G	I MSc Chemistry
5.	Ancy James	I MSc Chemistry
6.	Sr. Jaseentha A	I MSc Chemistry
7.	Athira R Devan	I MSc Chemistry
8.	Geethu Raj	I MSc Chemistry
9.	Sreejith S	I MSc Chemistry
10.	Geethu Johnson	I MSc Chemistry
11.	Anjali Babu	I MSc Chemistry
12.	Reshma Joseph	II MSc Chemistry
13.	Bhagya TC	II MSc Chemistry
14.	Jasmine Joseph	II MSc Chemistry
15.	Teena Paul	II MSc Chemistry
16.	Rincy Xavier	II MSc Chemistry
17.	Manju P	II MSc Chemistry
18.	Nayana Mary PS	II MSc Chemistry

Fatima Mata National College, Kollam		
Serial No.	Name of Student	Class
19.	Athira Anand	II MSc Chemistry
20.	Sajini A	II MSc Chemistry
S N College, Kollam		
21.	Ajesh V	I MSc Chemistry
22.	Amal MP	I MSc Chemistry
23.	Syam Kumar PS	I MSc Chemistry
24.	Chithra GS	I MSc Chemistry
25.	Meenu S	I MSc Chemistry
26.	Reshama F	I MSc Chemistry
27.	Swathi Sree	I MSc Chemistry
28.	Mahendu R	I MSc Chemistry
29.	Sarika S	I MSc Chemistry
30.	Sindhu V	I MSc Chemistry
31.	Vidya S	I MSc Chemistry
32.	Vidya R	I MSc Chemistry
33.	Pooja R	I MSc Chemistry
34.	Akhila Vijayan	I MSc Chemistry
35.	Vidya U	I MSc Chemistry

S N College, Kollam		
Serial No.	Name of Student	Class
36.	Geethu Krishnan	I MSc Chemistry
37.	Athulya Rajan	I MSc Chemistry
38.	Akhila OY	I MSc Chemistry
39.	Sreelekshmi SL	I MSc Chemistry
40.	Anju KR	I MSc Chemistry
41.	Vidya C	I MSc Chemistry
42.	Malavika S	I MSc Chemistry
43.	Geethu Raj	I MSc Chemistry
44.	Aparna PS	II MSc Chemistry
45.	Renju K	II MSc Chemistry
46.	Sini S	II MSc Chemistry
47.	Jisha Johnson	II MSc Chemistry
S N College for Women, Kollam		
48.	Biji M	I MSc Chemistry
49.	Jittimol PL	I MSc Chemistry
50.	Jisha S Lal	I MSc Chemistry
51.	Deepthi S	I MSc Chemistry
52.	Parvathy B	I MSc Chemistry

S N College for Women, Kollam		
Serial No.	Name of Student	Class
53.	Liji LV	I MSc Chemistry
54.	Aswathy M	I MSc Chemistry
55.	Reeshdevi S	I MSc Chemistry
56.	Prasanthu GP	I MSc Chemistry
57.	Santhini S Prasad	I MSc Chemistry
58.	Revathy S	I MSc Chemistry
59.	Reshma S Nair	I MSc Chemistry
60.	Kavitha Mani M	I MSc Chemistry
61.	Jahnavi C	I MSc Chemistry
S G College, Kottarakara		
62.	Gopika Krishnan G S	I MSc Chemistry
63.	Saranya Karthik	I MSc Chemistry
64.	Mekha Murugan	I MSc Chemistry
65.	Lincy G	I MSc Chemistry
66.	Vishnu R	I MSc Chemistry
67.	Harikrishnan M	I MSc Chemistry
68.	Ashily Shaji	I MSc Chemistry

St Stephens College, Pathanapuram		
Serial No.	Name of Student	Class
69.	Anoosha S	I MSc Chemistry
70.	Aswathy A	I MSc Chemistry
71.	Gayathri R Nair	I MSc Chemistry
72.	Geethu Mohan	I MSc Chemistry
73.	Leethiya S David	I MSc Chemistry
74.	Libin Thomas	I MSc Chemistry
75.	Mumthaz N	I MSc Chemistry
76.	Anila Krishnan	I MSc Chemistry
77.	Nithin N Nair	I MSc Chemistry
78.	Praveena P	I MSc Chemistry
79.	Rahul Nadh R	I MSc Chemistry
DB College, Sastamakottah		
80.	Arya Raj MA	II MSc Chemistry
81.	Arya R	II MSc Chemistry
82.	Anjana Murali	II MSc Chemistry
83.	Bindya Mol	II MSc Chemistry
84.	Ashitha PV	II MSc Chemistry
85.	Parvathy Sankar	II MSc Chemistry

86.	Rakhi Raj	II MSc Chemistry
87.	Revathy Raveendran	II MSc Chemistry
88.	Radhikrishnan U	II MSc Chemistry
Serial No.	Name of Student	Class
89.	Sharija KS	II MSc Chemistry
90.	Soorya Nair	I MSc Chemistry
91.	Anju Alex	I MSc Chemistry
92.	Anjana Rajendran	I MSc Chemistry
93.	Amaldev A	I MSc Chemistry
94.	Neethu S Vasam	I MSc Chemistry
95.	Resmi Raveendran	I MSc Chemistry
96.	Surya U	I MSc Chemistry
97.	Swathi Krishna	I MSc Chemistry
MSM College, Kayamkulam		
98.	Saranya R	II MSc Chemistry
99.	Aneesa K	II MSc Chemistry
100.	Arsha Shahul	I MSc Chemistry
101.	Rubayya VA	I MSc Chemistry
102.	Minimol	I MSc Chemistry
103.	Aswathy Aravind	I MSc Chemistry
104.	Silpa S	I MSc Chemistry

105.	Selma Mol S	I MSc Chemistry
106.	Sabeena BK	I MSc Chemistry
107.	Sanoop MS	I MSc Chemistry
108.	Muhammed Iqbal	I MSc Chemistry

TKM College of Arts and Science, Kollam		
Serial No.	Name of Student	Class
109.	Dhanasree PR	I MSc Chemistry
110.	Surumi Shamsudeen	I MSc Chemistry
111.	Reshmi P	I MSc Chemistry
112.	Amina A	I MSc Chemistry
113.	Nishana A	I MSc Chemistry
114.	Pooja Vijayan	I MSc Chemistry
115.	Varanya Jayan	I MSc Chemistry
116.	Sreeja Mol S	I MSc Chemistry
117.	Sreelekshmi PB	I MSc Chemistry
118.	Binza P	II MSc Chemistry
119.	Sajna Siyad	II MSc Chemistry
120.	Prajeesha PL	II MSc Chemistry
SN College, Chengannur		
121.	Raja Sree U	II MSc Chemistry

122.	Rakhi A	II MSc Chemistry
123.	Alka PB	II MSc Chemistry
124.	Syamini Das	II MSc Chemistry
125.	Reshmi L	II MSc Chemistry
University College, Trivandrum		
126.	Arshad A	II MSc Chemistry

Research Scholars		
Serial No.	Name of Student	College
1.	Surya R	FMN College
2.	Lekshmi V Kumar	DB College
3.	Jyothish Kumar	SN College Kollam
4.	Prathibha B	DB College

List of Teachers		
Serial No.	Name of Teacher	College
1.	Prof George Paul	FMN College
2.	Dr Sheeja Mathews	FMN College
3.	Dr Suma N	FMN College
4.	Dr Apsara AP	FMN College
5.	Dr Sarau Devi	FMN College
6.	Dr Biju Mathew	FMN College
7.	Dr Manohar D Mullassery	FMN College
8.	Dr Noeline B Fernandez	FMN College
9.	Ms Mary Nancy	FMN College
10.	Ms. Mini V	FMN College
11.	Dr Shibu Joseph	FMN College
12.	Ms Jiji Johnson	FMN College
13.	Mr Ignatius J	FMN College
14.	Ms. Sheena Mary Y	FMN College
15.	Dr Sarlin PJ	FMN College
16.	Ms. Nisha Thomas	FMN College
17.	Dr Suma S	SN College, Kollam
18.	Dr Asha Bhanu	SN College for Women
19.	Ms Renjini S	SN College for Women

20.	Dr Asha S Kumar	SN College for Women
-----	-----------------	----------------------

List of Teachers		
Serial No.	Name of Teacher	College
21.	Dr Indose Aravind	DB College
22.	Dr Chithra PG	FMN College
23.	Dr Vijaya Lekshmi	FMN College
24.	Dr Sivakala	FMN College
25.	Dr Siyad ML	TKM College
26.	Dr. Maya Devi	NSS College of Engineering, Palakkad
27.	Dr Anu K	MSM College, Kayamkulam
28.	Dr. Renu Thomas	St Stephens, Pathanapuram
29.	Dr Sheela A	MSM College, Kayamkulam



1. Students of MSc Chemistry singing prayer song



2. Prof. George Paul (Head of the Department of Chemistry, Fatima Mata National College) welcoming the gathering



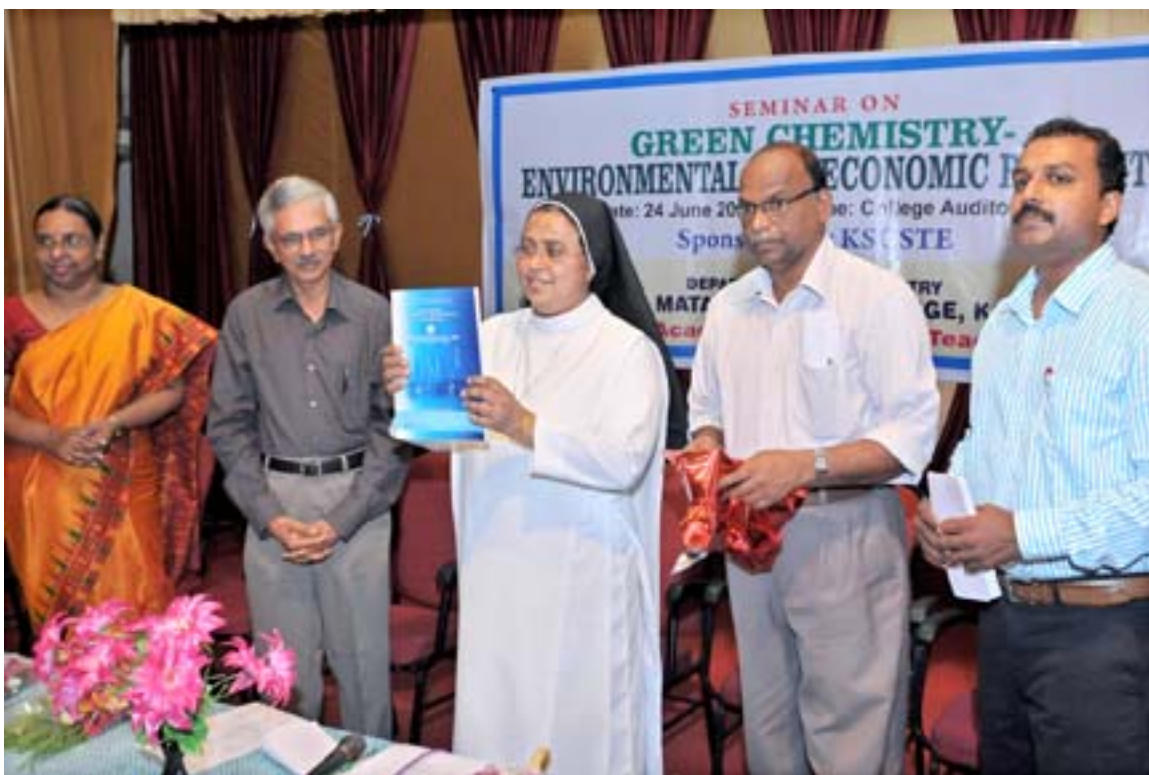
3. Dr. Sr. Soosamma Kavumpurathu (Principal, Fatima Mata National College) delivering the Presidential address



4. Prof. Dr. KN Rajasekharan (Former HOD, Chemistry, University of Kerala) inaugurating the seminar by lighting the traditional lamp.



5. Prof. Dr. KN Rajasekharan addressing the gathering by delivering keynote address.



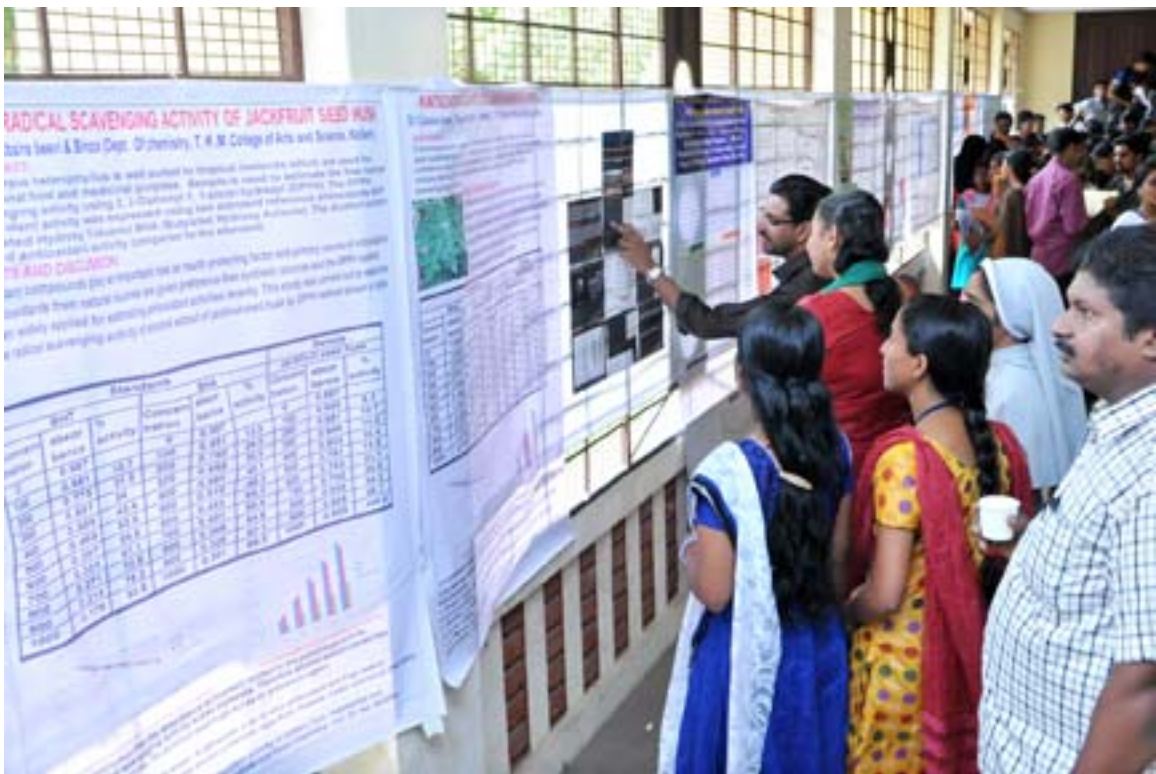
6. Dr. Sr. Soosamma Kavumpurathu (Principal, Fatima Mata National College) releasing the Proceedings of the seminar by handing over the copy to Prof Rajasekharan



7. Dr. IG Shibi (Associate Professor, SN College, Chempazhanthy and General Secretary, Academy of Chemistry Teachers (ACT)) offering felicitations



8. Dr. Manohar D. Mullassery, organizing secretary of the seminar offering vote of thanks



9. Participants of the seminar are observing the poster presentations



4. Prof. Dr. KN Rajasekharan (Former HOD, Chemistry, University of Kerala) interacting the audience during the forenoon session



7. Dr. IG Shibi (Associate Professor, SN College, Chempazhanthy and General Secretary, Academy of Chemistry Teachers (ACT)) during the afternoon session

Seminar on
Green Chemistry-Environmental and Economic Benefits
Sponsored by KSCSTE
Organized by
Department of Chemistry, Fatima Mata National College, Kollam

Inaugural Function (9.45-10.15 am, 24-06-2014)

Programme Schedule

Prayer song

Welcome Speech

- Prof. George Paul
(HOD, Chemistry)

Presidential Address

- Dr. Sr. Soosamma Kavumpurathu
(Principal, FMNC, Kollam)

Inaugural Address

- Dr. K N Rajasekharan
(Former HOD, Dept. of Chemistry,
University of Kerala)

Felicitations

- Rev. Fr. Anil Jose
(Manager, FMNC, Kollam)
- Dr. IG Shibi
(General Secretary, ACT)

- Dr. Wilma Cyril
(Former HOD, Chemistry)

Vote of Thanks

- Dr. Manohar D. Mullassery
(Organizing Secretary)

Technical Session, 1.
(10.30 am-12.00)

- Dr. K N Rajasekharan
(Former HOD, Chemistry, University of
Kerala)

Poster Session (12.00-1.00 pm)

Lunch Break (1.00 pm-1.45 pm)

Technical Session 2.
(1.45-3.15 pm)

- Dr. I G Shibi
(Associate Prof., Dept of Chemistry, S N
College, Chempazhanthy)

Resource Persons

1. Dr. K N Rajasekharan
(Former HOD, Chemistry, University of Kerala)
2. Dr. I G Shibi
(Associate Prof., Dept of Chemistry, S N College,
Chempazhanthy)

Outcome of the seminar

The seminar on Green Chemistry-Environmental and Economic Benefits was highly beneficial to both students and teachers. Both resource persons were able to discuss the topics based on the MSc. Chemistry syllabus prescribed by the University of Kerala. Research scholars were also found useful as this was a newly introduced topic. Research scholars who want to pursue research in Green Chemistry got a rare opportunity gather ideas from experts in the field.

The first session was handled by Dr. KN Rajasekharan (former Head of the Department of Chemistry, University of Kerala, Kariavattom). He discussed the twelve basic principles of Green Chemistry. Solventless synthesis of organic compounds was also highlighted. A hard copy of the paper which was authored by Prof Rajasekhran was also distributed among participants.

The second session gave more emphasis on application of Green Chemistry. Microwave synthesis, synthesis by scavenger resins and its applications in catalysis and biocatalysis. This session also focused on the role of industries in polluting the environment, limitations of conventional waste management, pollution prevention and the role of green chemistry in mitigating the effects of pollution.

Women's Day (2014-2015)
8th March, 2015

The Women's Day, "Nirbhaya", organized in our college on 8 March, 2015, coincided with the International Women's Day (IWD) that celebrates the social, economic, cultural and political achievement of women. A seminar on Gender Equality and Women's Rights was organised by the women students of the college. DrShobha (Surgeon, Indian Railways, Trivandrum) talked on various life style diseases which are caused by lifestyle habits. The interactive session that followed focused on prevention of the diseases by following simple changes in day to day life. DrAnithaKumari, Associate Professor, SN College for Women talked on Gender Equality, and the various challenges encountered by the women of today.

The meeting that followed had cine artiste, Miss SreelekshmiSreekumar as the chief guest. DrParvathy, Convener, Women's Cell, and Miss. NandiniPadmanabhan, Vice Chair Person spoke at the function.

Fourty two teachers participated in the programme along with students.



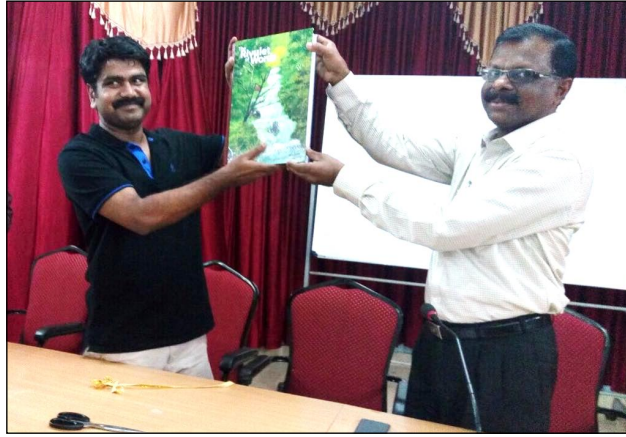


TALK ON PERSONALITY DEVELOPMENT

Personality development is the development of the organized pattern of behaviors and attitudes that makes a person distinctive. Personality development occurs by the ongoing interaction of temperament, character, and environment. Discovering the hidden aspects of your personality, accelerate success & popularity.

As part of the literary and debate club activities, Mr. Raju Mathew, Senior Sub Editor, Malayala Manorama, delivered a speech on Personality Development on 3rd March 2015. He stressed the importance of interpersonal skill in personality development. He also explained the five stages of personality development. Thirty-Two students of the club and 12 teachers participated the session.

6 October 2017 – A one-day seminar on **Film Studies** by **Mr Sanju Surendran**, auteur. Mr Sanju Surendran, an Indian film director , screen writer and producer delivered a talk of Film studies, an academic discipline, that deals with various theoretical , historical and critical approaches to films. On the occasion, the chief guest released a manuscript magazine, “A Rivulet of Words” brought out by the II M.A. Literature students. The first copy was received by Dr Vincent B.Netto, Principal, F.M.N.College.





**NATIONAL SEMINAR ON 'FLOWERING
PLANT REPRODUCTION AND DIVERSITY'
DEPARTMENT OF BOTANY**

**INTERNAL QUALITY ASSURANCE CELL
FATIMA MATA NATIONAL COLLEGE**

(Autonomous)

KOLLAM-1



TWO DAY NATIONAL SEMINAR ON 'FLOWERING PLANT REPRODUCTION AND DIVERSITY'

REPORT

Background

India is one of the mega biodiversity countries of the world and nurtures enormous plant diversity. However, this treasure is under constant threat due to various factors. The rapid decline in plant diversity and the growing awareness of the importance of preserving the diversity have given an unprecedented impetus for conservation. Conservation approaches on rare, endangered and exotic species have to be planned in consideration of the reproductive specialties. Hence, study of reproductive features need to be considered as an integral part of all conservation projects. The presence of many endemic plants in tropical vegetation calls for an urgent need for integration or coordination between plant systematics and reproductive biology. Taking this into consideration, research forefront in plant diversity has come up with new ideas to explore the reproductive specialties on conservation point of view. In this background this seminar was conceptualised, to arrange a scientific gathering of academicians, scientists, policy makers, research scholars and students from various academic, professional and research bodies across India, on a national perspective, to discuss and disseminate the latest ideas and concepts on various aspects of Plant Reproductive Biology and Plant Systematics.

Venue

This two day National Seminar was planned and organized by the Post Graduate Department of Botany, Fatima Mata National College (Autonomous), Kollam-1, Kerala. Fatima Mata National College was established in 1951 by His Excellency Rt. Rev. Dr. Jerome Fernandez, the first native Bishop of Quilon. The college is run by the Roman Catholic Diocese of Kollam, under the leadership of His Excellency Rt. Rev. Dr. Stanley Roman, Bishop of Kollam and is affiliated to the University of Kerala, imparting instruction in Humanities, Sciences and Commerce. Fatima College pursues the task of preparing young men and women for life, by providing value based education, and by inculcating in them a scientific temper and a firm commitment to spiritual and moral values, with a view to improving their lives, their homes and the world around them. The college is reaccredited by NAAC with 'B' grade in 2007 and 'A' grade in 2013. UGC granted autonomous status in the year 2014.

Department of Botany was established in 1952. Under Graduate course in Botany was started in 1952 and the Post Graduate course in 1961. Now the department is functioning as the nodal department in coordinating the UGC-Innovative Post Graduate course in Food & Dairy Biotechnology. Department is supported by DST, Govt. of India through FIST programme.

Date

The seminar was planned to be conducted in two days, on 9th and 10th January, 2015.

Title

The title of the seminar was designated as “Flowering Plant Reproduction & Diversity”.

Major Themes

The seminar was planned to bring the experts from various branches of Plant Systematics, Conservation Biology and Reproductive Biology, under a common umbrella to discuss on the various issues and outputs of these branches. So four major themes was identified and listed out as:

- a. Diversity of Flowering Plants
- b. Systematics and Conservation Biology
- c. Reproductive Mechanisms and its failures in Flowering Plants
- d. Modern Trends in Plant Systematics and Reproductive Botany

Submission of Proposals for Financial Assistance

Detailed proposals were made for submitting to various agencies seeking financial assistance for the programme. Dr. SophiammalNettar was selected as the Convenor of the programme, and the proposals were made by her with the assistance from Dr. Shaiju P.N. and Dr. B. Sinilal, Assistant Professors of the department. Proposals were submitted to three agencies –(1) SERB, Govt. of India, (2) KSCSTE, Govt. of Kerala and (3) University Grants Commission.

Financial Sanction

The proposals were approved and financial assistance was sanctioned by SERB and KSCSTE , and any communications in this regard has not been received till date from UGC.

Organizing Committee

An organizing committee was formulated for the smooth conduct of the seminar, and it is as follows-

- | | |
|---------|---|
| Patron | : Rt. Rev. Dr. Stanley Roman, <i>Bishop of Quilon</i> |
| Manager | : Rev. Fr. Anil Jose |

Chairperson : Dr. Sr. SoosammaKavumprath, *Principal*
Convenor : Dr. SophiammalNettar P., *HOD Botany*
Joint Convenor : Dr. Sinilal B., *Assistant Professor*
Organizing Secretary : Dr. Shaiju P. N., *Assistant Professor*
Programme Coordinators:
:Dr. Thomas Bennans, *Associate Professor*
: Dr. Marilyn V. J., *Associate Professor*
: Dr. Maria Brigit, *Associate Professor*
: Mrs. Nirmala Jayarani, *Associate Professor*
: Dr. Rubin Jose A. S., *Assistant Professor*

Dr. SophiammalNettar was designated as the chief of the finance committee. The Food committee was under the leadership of Dr. Thomas Bennans. The responsibility of Registration and Reception were given to Dr. Marilyn V.J. Dr. M. Maria Brigit and Dr. Sinilal was given the charge of the Technical Committee, and the Dr. Sinilal was also entrusted as the Chief Editor of the Seminar Proceedings, which was expected to be released during the seminar days. Mrs. Nirmala Jeyarani was in charge of the programme committee, and the charge of Accomodation, travel and local hospitality was given to Dr. Rubin Jose. The publicity committee was under the leadership of Dr. Shaiju P.N.

Seminar Brochure

A brochure displaying all the necessary information of the seminar was designed and printed (*Please see appendix I*). The brochure was sent to all the academic and research organizations in India, doing active research in the field of Plant Systematics, Conservation Biology and Reproductive Botany.

Registration and Abstract Submission

A registration form was also sent along with the brochure (*Please see appendix II*), for providing the necessary details of the participants. A total of 82 participants registered for the seminar and a total of 52 abstracts and full papers received. The technical committee in consultation with the Convenor and Organizing Committee screened the papers and included them in the respective themes. The participants were intimated in time through e-mail, about the acceptance of their papers and other necessary instructions.

Resource Persons

The organizing committee made special sitting in order to finalise the list of resource persons. The following resource persons were contacted and their consents were obtained.

Keynote address	: Padmashree Dr. P. Pushpangadan, Director General, AIHBPD
Inauguration	: Smt. Honey Benjamin, Hon'ble Mayor, Kollam
Theme I Lecture I	: Dr. N. Sasidharan, Emeritus Scientist, KFRI
Theme I Lecture II	: Dr. P. Ravichandran, Professor, MS University
Theme II Lecture I	: Prof. (Dr.) G.M.Nair, University of Kerala
Theme II Lecture II	: Dr. Mathew Dan, Scientist, JNTBGRI
Theme III Lecture I	: Dr. P.A.Sinu, Central University of Kerala
Theme III Lecture II	: Dr. A.K. Sreekala, Scientist, JNTBGRI
Theme IV Lecture I	: Dr. B. Nagarajan, Scientist, IFGTB
Theme IV Lecture II	: Dr. Jomy Augustine, St. Thomas College, Pala
Valedictory Address	: Dr. Joseph John, Principal Scientist, NBPGR

Programme Notice and Invitation

A detailed programme notice was printed (*Please see Annexure III*) and invitations were sent to the Guests, Resource Persons, Media People, Delegates and students.

Publicity

Publicity was made through newspapers (Figure 1) and local news channels. Arches and boards illustration the seminar details were exhibited in and around the college premises.

Accomodation

Resource persons were provided necessary travel grants and they were accomodated in star class hotes in Kollam city during the seminar.

Spot Registration and Distribution of Seminar Materials

The reception and registration committee has arranged a warm reception at the forefront of the venue, *Bishop Stanley Romman Hall* in the Jubilee Block of FMNC. During this spot registrations were arranged and a total of 16 participants were registered at the spot (*Please see Annexure IV & V*).

The seminar materials including a file, detailed programme (*Please see Annexure VI*), ball point pen, food coupons and a note pad (*Please see Annexure V*) were also distributed to the registered participants and resource persons.

A *Help Desk* (Figure 2) was also arranged for helping outstation participants and guests.

The registration proceedings were started at 8.30 am on 9th January, 2015.

Inaugural Session: At 9 am on 9th January, 2015

The inaugural session was started with a prayer from the student team at 9 am on 9th January, 2015. The resource persons, guests, delegates, faculty members and students were welcomed by Dr. SophiammalNettar, Convenor of the Seminar (Figure 3). She introduced the college and described the genesis and execution of the seminar proceedings. The vice-principal of the college, Mrs. Hycinth Sophia Paul, delivered the presidential address (Figure 4), for the Principal in her absence. She lauded the department in organizing this national seminar with a vibrant topic. Later the seminar was officially inaugurated by the Hon'ble Mayor of Kollam City, Smt. Honey Benjamin (Figure 5), by lighting the lamp. She urged the scientific gathering to give more attention to conserve the flowering plants in our ecologically fragile areas, since they are in strong relation with our tradition and heritage. The proceedings of the seminar (*Please see Annexure VIII*) was released during the function by Dr. P. Pushpangadan (Figure 6). This was followed by the keynote address by Padmashree Dr. P. Pushpangadan, Director General AIHBPD (Figure 7). The lecture was centered around the title of the seminar, 'Flowering Plant Reproduction & Diversity'. He explained in detail the significance of flowering plant reproduction and diversity. The inaugural session was concluded with vote of thanks from Dr. Shaiju P.N., Organizing Secretary (Figure 8).

Tea Break: At 10.15 am on 9th January, 2015

The resource persons, guests, delegates, faculty members and students were provided a *High Tea*.

Theme I: Diversity of Flowering Plants: At 10.30 am on 9th January, 2015

The first major theme of the seminar was 'Diversity of Flowering Plants'. The session was packed with two theme lectures, nine oral presentations and three posters.

The first theme lecture was given by Dr. N. Sasidharan, Emeritus Scientist, KFRI, Thrissur (Figure 9). He was lecturing on 'Flowering Plant Diversity of southern Western Ghats, with special reference to Kerala'. The talk was quite informative and an eye opener to the participants. His emphasis was on the dicot flora. The talk was followed by an interactive session with the delegates.

The second theme lecture was given by Dr. P. Ravichandran, Professor, MS University, Thirunelveli (Figure 10). He was lecturing on 'Floral Diversity of Grasses of Western Ghats'. The lecture was attractive and brainstorming. His emphasis was on the monocot flora in general and grasses in particular. The talk was followed by an interactive session with the delegates.

After the theme lectures, oral presentations on the major theme were held in the auditorium (Figures 11 & 12), and posters were presented at the front courtyard (Figure 13 & 14). Xx participants presented their findings in the oral session and one as posters. The oral presentations were monitored and judged by Dr. N. Sasidharan and Dr. P. Ravichandran.

Lunch Break: At 1.00pm on 9th January, 2015

Asumptuous lunch was provided to the registered participants and resource persons.

Theme II: Systematics and Conservation Biology: At 2.00pm on 9th January, 2015

The second major theme of the seminar was 'Systematics and Conservation Biology'. The session was packed with two theme lectures, 10 oral presentations and one poster.

The first theme lecture was proposed to be given by Dr. G.M. Nair, but because of some urgent reasons his lecture was shifted to the second day, in the third sessions, and the proposed lecture by Dr. P.A. Sinu, on the thisrd session was shifted to the second session.

The first lecture given by Dr. P.A. Sinu, Assistant Professor, Central University of Kerala (Figure 15) was on 'Factors Limiting the Recruitment of Tropical Forests'. The talk was on the pollinating mechanism of insects in general and bees in particular on the crop plants. The lecture was inspiring. The talk was followed by an interactive session with the delegates.

The second theme lecture was given by Dr. Mathew Dan, Scientist, JNTBGRI (Figure 16). He was lecturing on 'Progression of Clasiification to Systematics'. The lecture was attractive and brainstorming. His emphasis was on the classifiacation pattern in flowering plants. The talk was followed by an interactive session with the delegates.

After the theme lectures, oral presentations on the major theme were held in the auditorium (Figure 17), and posters were presented at the front courtyard (Figure xx). Tenparticipants presented their findings in the oral session and one as poster. The oral presentations were monitored and judged by Dr. Mathew Dan and Dr. William Decruse.

Posters-First Day

A total of four posters were exhibited in the first day, covering the first two themes. The posters were evaluated by Dr. MuhammedThaha and Dr. M. Navas.

Theme III: Reproductive Mechanisms and its Failures in Flowering Plants: At 9.00am on 10th January, 2015

The second major theme of the seminar was 'Reproductive Mechanisms and its Failures in Flowering Plants'. The session was packed with two theme lectures, five oral presentations and two posters.

The first theme lecture was proposed to be given by Dr. P.A. Sinu, but because of some urgent reasons his lecture was shifted to the first day, in the second sessions, and the proposed lecture by Dr. G.M.Nair, on the second session was shifted to the third session.

The first lecture given by Prof. (Dr.) G.M. Nair, Inter-University Centre for Genomics and Gene Technology, University of Kerala (Figure 18) was on 'Conservation Biology-A Holistic Approach: Strategies Revisited'. The talk was on the conservation strategies of endangered and endemic flowering plants of Western Ghats. The lecture was attractive and informative. The talk was followed by an interactive session with the delegates.

The second theme lecture was given by Dr. A.K. Sreekala, Scientist, JNTBGRI (Figure 19). Shee was lecturing on 'Reproductive Mechanisms and Incompatibility in Flowering Plants'. The lecture was attractive and brainstorming. Her emphasis was on the basic mechanism of flowering, pollination and their failures. The talk was followed by an interactive session with the delegates.

After the theme lectures, oral presentations on the major theme were held in the auditorium (Figure 20), and posters were presented at the front courtyard (Figure 21). Five participants presented their findings in the oral session and xx as posters. The oral presentations were monitored and judged by Dr. G.M. Nair and Dr. Jomy Augustine.

Tea Break:At 11.30 am on 10th January, 2015

The resource persons, guests, delegates, faculty members and students were provided a *High Tea*.

Theme IV: Modern Trends in Systematics and Reproductive Botany: At 11.45am on 10th January, 2015

The fourth and last major theme of the seminar was 'Modern Trends in Systematics and Reproductive Botany'. The session was packed with two theme lectures, five oral presentations and two posters.

The first theme lecture was given by Dr. B. Nagarajan, Scientist, IFGTB, Coimbatore (Figure 22). He was lecturing on 'Reproduction in Tropical Trees :Implications on Amelioration andConservation'. The talk was quite informative and an eye opener to the participants. His emphasis was on the pollination mechanisms in tree species. The talk was followed by an interactive session with the delegates.

Lunch Break:At 12.30pm on 10th January, 2015

A sumptuous lunch was provided to the registered participants and resource persons.

Theme IV: Continued

The second theme lecture was given by Dr. Jomy Augustine, Head, Department of Botany, St. Thomas College, Pala (Figure 23). He was lecturing on 'Plant Biosystematics– Modern Approaches or Unending Synthesis?'. The lecture was attractive and brainstorming. His emphasis was on the various new and old trends in plant systematics. The talk was followed by an interactive session with the delegates.

After the theme lectures, oral presentations on the major theme were held in the auditorium (Figure 24), and posters were presented at the front courtyard (Figure 25). Fiveparticipants presented their findings in the oral session and two as posters. The oral presentations were monitored and judged by Dr. A.K. Sreekala and Dr. Mariamma Cherian.

Posters-Second Day

A total of four posters were exhibited in the first day, covering the last two themes. The posters were evaluated by Dr. Preetha T.S. and Dr. Cinthya Christopher.

Valedictory Session: At 3.30 pm on 10th January, 2015

The valedictory session was started with a prayer from the student team at 3.30 pm on 10th January, 2015. The resource persons, guests, delegates, faculty members and students were welcomed by Dr. Thomas Bennans, Organizing Committee Member of the Seminar (Figure 26). He briefed the proceedings of the seminar. The vice-principal of the college, A.R. Titus, delivered the presidential address (Figure 27), for the Principal in her absence. He congratulated the department in organizing this national seminar successively. Later the valedictory address was made by Dr. Joseph John, Principal Scientist and Officer-in-charge, NBPGR Regional Station, Thrissur (Figure 28). His talk was on 'Conservation and utilization of agro-biodiversity-a case study of *Momordica* L. in India'. Later the awards for best papers in all themes were given away by Dr. G.M. Nair, in the absence of College Manager, Rev. Fr. Anil Jose. Vote of thanks were made by Dr. Sinilal B., Joint Convenor

of the Seminar (Figure 29). The seminar came to an end with the National Anthem.

Awards: Best Paper and Poster Presentations

Best oral presentations were awarded in each theme, and two best poster presentation awards were given on each day. The awardees are:

- Theme I Oral : Mr. Ebin P.J., Dept. of Botany, St. Thomas College, Pala
- Theme II Oral : Dr. Devipriya M.S., Dept. of Botany, SN College, Kollam & Mr. Anto Mathew, Conservation Biology Division, JNTBGRI, Palode, Thiruvananthapuram
- Theme I & II Poster : Mr. Manu K.S., Dept. of Botany, BAM College, Thuruthicaud
- Theme III Oral : Ms. Divya K.G., ERRC, Thiruvananthapuram
- Theme IV Oral : Mr. Akhila H., Dept. of Botany, University of Kerala
- Theme III & IV Poster : Mr. Sureshkumar P., Dept. of Botany, FMN College, Kollam

The awardees were presented with mementos and appreciation certificates (Figures 30 to 36).

Participants were given the participation certificate (*Please see Annexure IX*) signed by the Principal and Convenor of the Seminar.

Added Attraction

One of our resource person, Dr. Jomy Augustine, displayed the photographs of endangered and rare plants from Western Ghats, and some scenic landscapes (Figures 37 to 40). The exhibition was arranged in the main entrance courtyard and two rooms associated with it.



31

31

UNION BUDGET SEMINAR

22nd July, 2014

Post Graduate and Research Department of Economics, in collaboration with Malayal Manorama daily, organized Union Budget Seminar on 22nd July, 2014, at the Bishop Jerome Hall. Dr. B.A. Prakash, Chairman, Kerala State Public Expenditure and Dr. C.S. Shaijumon, IIST, Thiruvananthapuram were the resource persons. Ten faculty members and 350 students participated in the event.

