



JSA Newsletter

Jaffna Science Association, Jaffna, Sri Lanka

Volume 24

Issue 1

In this Issue :

- ✍ From Editor's pen - Page 01
- ✍ Portraits during the installation of the 24th Executive committee - Page 02
- ✍ JSA 24th Executive committee - Page 04
- ✍ Sectional committees - Page 04
- ✍ Sectional Activities - Page 05
- ✍ JSA Membership - Page 08
- ✍ The Impact of Information technology on the Organization - Page 10
- ✍ Discussion session on Northern Educational system - Page 12
- ✍ News Paper Article - Page 12

Jaffna Science Association is registered as a voluntary services, Non-Governmental Organization at the District Secretariat

Registration Number :
JA/GA/P/CA/28

Date of Registration:
20th November 08

JSA Office Address:
84, College Road, Neeraviyadi,
Jaffna, Sri Lanka.

Web
<http://www.thejsa.org>

e-Mail
thejsaorg@gmail.com

e-Mail of President
president@thejsa.org

e-Mail of General Secretary
sec@thejsa.org

Facebook fan-page
www.facebook.com/thejsa

Compiled and edited by
Dr. (Miss.) Shivatharsiny. Rasalingam
Chief Editor/JSA

..... From Editor's pen

Hi everyone:

Welcome to our first newsletter for 2016-17. This newsletter provides me with a chance to reflect on what the Association has been able to achieve in first quarter of this year 2016-17. Thanks to those of you who contributed to it, especially, *the sections, which carried out useful activities for the society through their sectional activities and shared the memories as a collection of photographs for this newsletter;* as these contribution are essential to the newsletter's success.

Congratulations to the team from section A, who have participated in the water scarcity program in Delft. As members of the JSA we all share in and benefit from your achievements, and we hope to hear more good news along these lines.

In this Newsletter, we have included the 24th executive committee along with the sectional committee for the year 2016-17. We would like to build on this section in next issues with the activities done by different sections as well as the articles from all sections. As your newsletter editor, I welcome your articles, photographs and input to help keep the newsletter and website entertaining and informative. Please send your information to: srtharsha12@gmail.com

Thank you.

Shiva Rasalingam
The Chief-Editor/JSA

The JSA

The JSA was established in 1991 by the founder President late Prof. A. Thurairajah

Would you like to contribute to your Community?

Need an appropriate platform for executing your ideas?

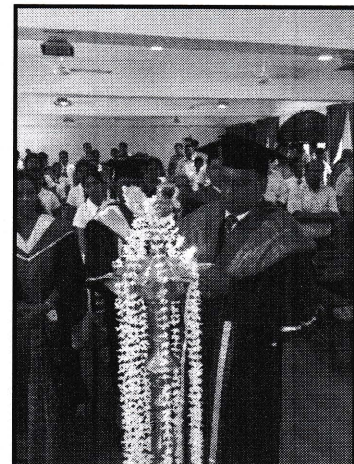
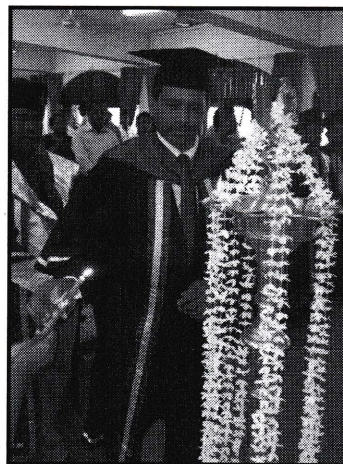
Become a LIFE MEMBER of JSA today!

The primary objectives of the JSA are dissemination of scientific knowledge among the intellectuals in Jaffna region, encouraging national as well as regional research studies and presenting them in the Jaffna society, and advancement of scientific knowledge among the secondary school students and at the undergraduate level.

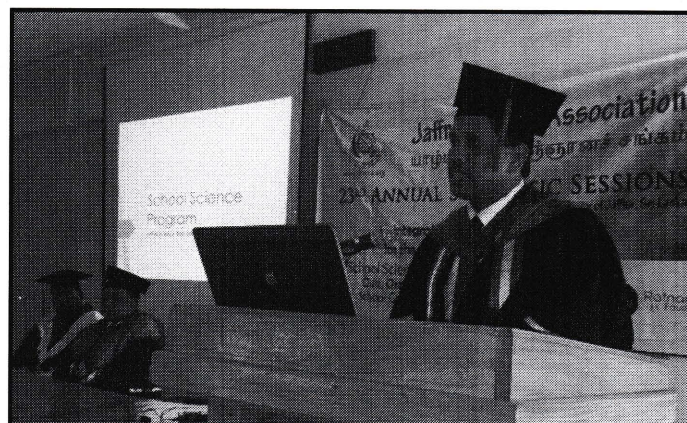
Installation of 24th Executive Committee...



Arrival of the 24th Executive committee to the venue



Past President Dr. K. Thabotharan and The current President Dr. R. Surenthirakumaran is lighting the traditional oil lamp



Past President Dr. K. Thabotharan is delivering his Address



President Dr. R. Surenthirakumaran is delivering a Talk on Youth Empowerment



The audience

Sections of JSA

Section A :
For Pure Sciences

Section B :
For Applied Sciences

Section C :
For Medical Sciences

Section D :
For Social Sciences

Activities of JSA

Organize annual School
Science programmes

Organize annual
conference on a timely
topic

JSA Sectional Activities

Arrange popular talks to
update people with
present happenings

Organize workshops to
empower people

Publish a magazine called
**'Pirayoga Vingnana
Sudar'** and Newspaper
articles to disseminate
knowledge

**The 24th Executive
Committee**

2016-17

President

Dr. R.
Surenthirakumaran

Past President

Dr. K. Thabotharan

President elect

Dr. S. Santhirasegaram

General Secretary

Mr. K. Sarveswaran

Asst. Secretary

Mr. A. Nithlavarnan

Treasurer

Ms. S. Balagobei

Asst. Treasurer

Ms. T. Sivakaran

Chief Editor

Dr. (Ms.) S. Rasalingam

Members

Dr. P. Iyngaran
Dr. K. Sooriyakumar
Dr. (Ms.) K.
Muruganathan
Ms. J. Thevananth

Sectional committee

Section A

Chairperson: Dr P. Iyngaran
Secretary: Dr. G. Sashikesh
Editor: Dr. (Ms.) S. Rasalingam
Members: Mrs. K. Nirajan
Dr. K. Gajapathy
Mr. K. Gunalan
Dr. K. Vignarooban
Mr. T. Pratheepan

Section B

Chairperson: Dr. K. Sooriyakumar
Secretary: Mrs. A. Sireerankan
Editor: Mr. V. Visithan
Members: Dr. K. Kandeepan
Dr. S. Vasantharuba
Dr. (Ms.) B. Mayurathan
Mr. R. Satkuntharaj
Mr. K. Thayanathan

Section C

Chairperson: Dr. (Ms.) K. Muruganathan
Secretary: Dr. T. Yoganathan
Editor: Dr. T. Chenthuran
Members: Dr. (Ms.) Y. Guruparan
Mrs. T. Gnanakarunyan
Mr. M. Pratheesh
Dr. (Ms) T. Thileepan
Mrs. L. Kamalaruban

Section D

Chairperson: Ms. J. Thevananth
Secretary: Ms. K. Tharumarajah
Editor: Mr. N. Sivakaran
Members: Dr. (Ms.) V. Yoharatnam
Mr. V. Kumaradeepan
Prof. R. Sivaachandran
Mr. S. Ragulendran
Mr. S. Niroshan

Sectional Activities

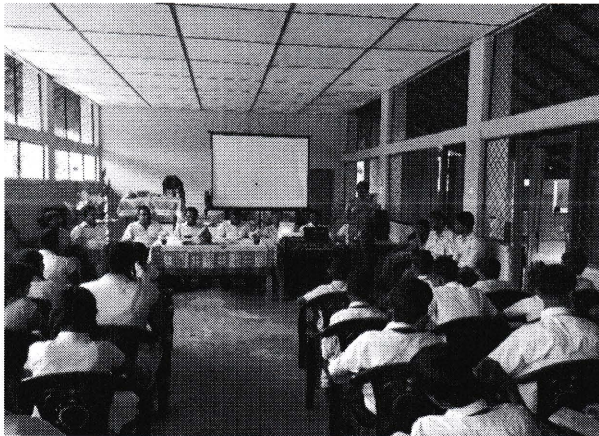
JSA: Section A organized a School Awareness Programme On Water scarcity at Delft

People who are living in the Delft (Nedunthivu), currently struggling to get the fresh water for their domestic usage. Therefore, the section A, decided to organize an awareness programme among the school students.

Programme Agenda

9:30 a.m.	Ushering and welcoming students for the awareness programme
9:35 a.m.	Introduction of water scarcity by Dr. P. Iyngam, Department of Chemistry, University of Jaffna.
9:45 a.m.	Important terms in water scarcity by Dr. P. Abiman, Department of Chemistry, University of Jaffna.
9:55 a.m.	What is fresh water? by Dr. (Miss.) S. Rasalingam, Department of Chemistry, University of Jaffna.
10:05 a.m.	Water cycle by Mr. A. C. Thavaranjit, Department of Botany, University of Jaffna.
10:10 a.m.	Threats to fresh water supply by Dr. (Mrs.) J. Prabagar, Department of Chemistry, University of Jaffna.
10:25 a.m.	Tea Interval.
10:45 a.m.	Effects of water shortage by Dr. R. Srikanan, Department of Chemistry, University of Jaffna.
11:00 a.m.	Water treatment by Dr. G. Sashikesh, Department of Chemistry, University of Jaffna.
11:10 a.m.	Desalination by Dr. K. Gajapathy, Department of Zoology, University of Jaffna.
11:20 a.m.	Rain water harvesting by Mr. K. Gunalan, Department of Fisheries, University of Jaffna.
11:35 a.m.	What can we do for the water scarcity? – Group discussion
12:10 p.m.	Mineral water by Sun Aqua Team.
12:20 p.m.	Lunch Break
13:00 p.m.	Student activities related to water scarcity
14:15 p.m.	Prize giving for the winners.
14:25 p.m.	Closing remarks.

Portraits from the JSA: Section A, School Awareness Programme



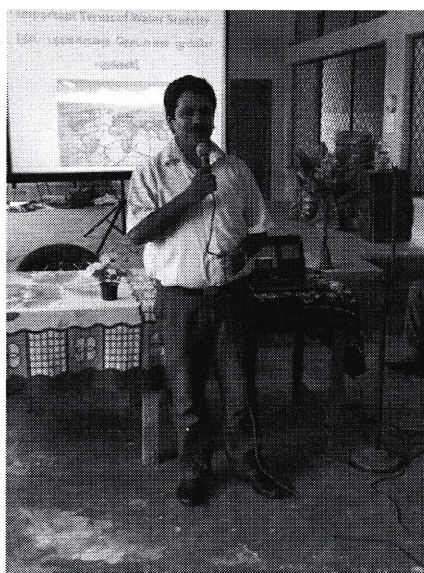
Welcome speech



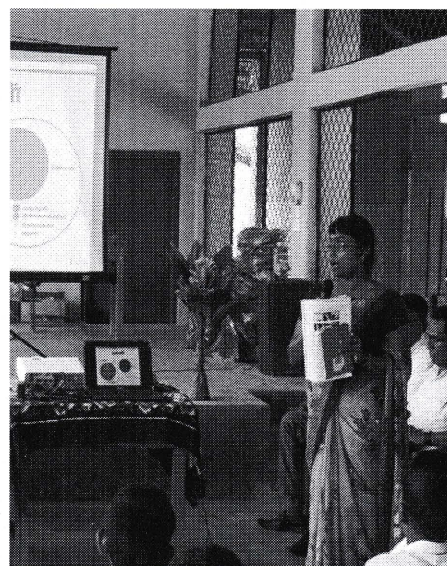
The students during the workshop



Dr. P. Iyngaran, the Chairperson, Section A

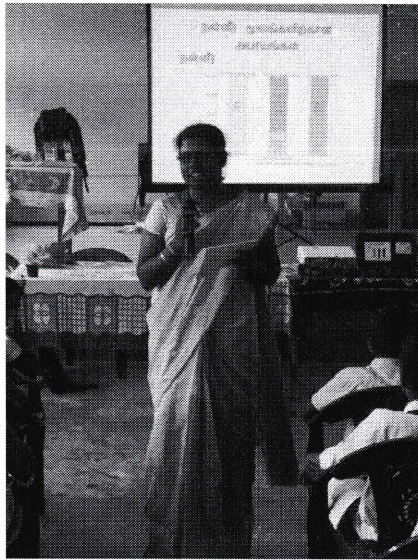


During the talk, Dr. P. Abiman

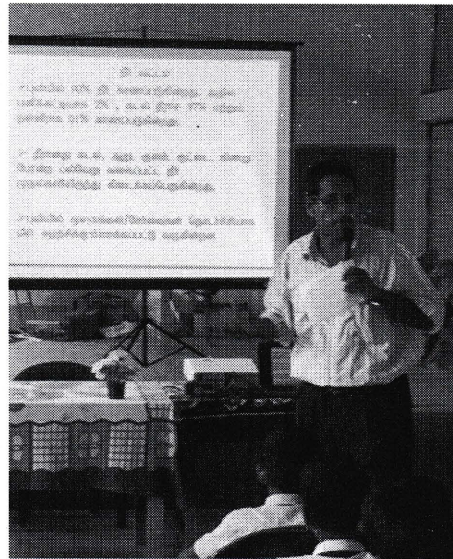


During the talk, Dr. (Miss.) S. Rasalingam

Portraits from the JSA: Section A, School Awareness Programme



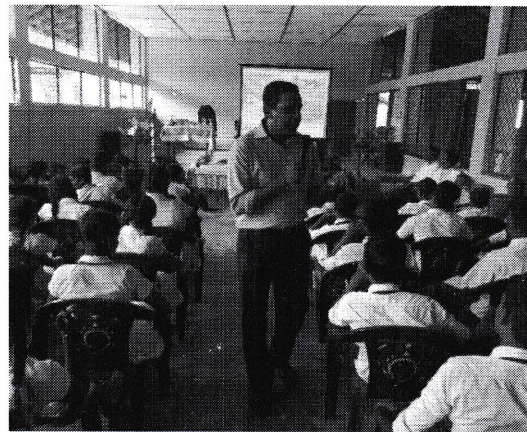
During the talk, Dr. (Mrs.) J. Prabagar



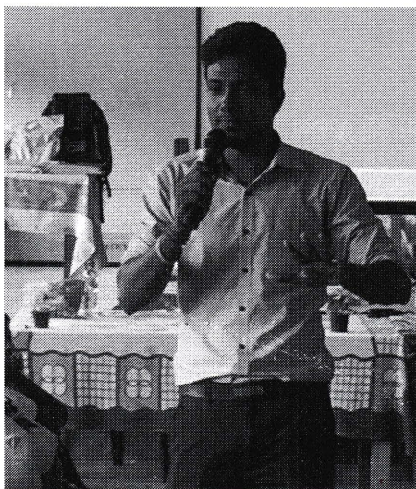
During the talk, Mr. A. C. Thavaranjith



During the talk, Dr. R. Srikanan



During the talk, Dr. G. Sashikesh

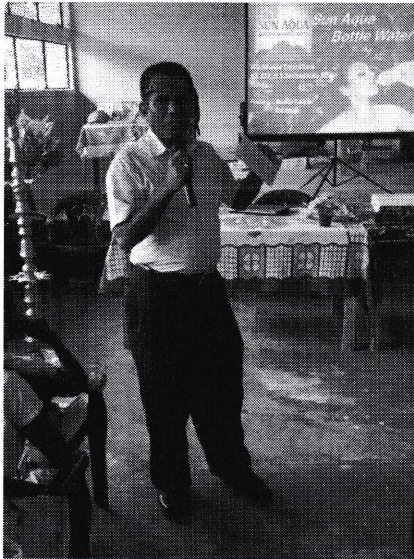


During the talk, Mr. K. Gunalan



During the talk, Dr. K. Gajapathy

Portraits from the JSA: Section A, School Awareness Programme



The talk and price distribution by the sponsors from the Sun Aqua Team, Colombo, Sri Lanka



Distributing school bags to the students from Delft Maha Vidyalaya. The bags were sponsored by Industrial Stainless steel Fabrications (pvt) ltd, Peliyagoda.



JSA Membership

LIFE Member	–	LKR 2000
Ordinary Member	–	LKR 500
Student Member	–	LKR 100

Eligibility: Applicant should be a Graduate from a recognized University in Sri Lanka or Abroad in any field. Application forms are available in the JSA website.



The activities and quiz competition which were conducted by the Section A, JSA among the student after the workshop on water scarcity.



The crew: Resource persons in front of the Sea, after their successful completion of workshop at Delft. Missing Dr. K. Gajapathy who is taking the photograph.

PC: Dr. KG

The Impact of Information technology on the Organization

Mrs. Janani Thevananth

Chairperson/Section D

Senior Lecturer in Information Technology

Department of Financial Management, Faculty of Management Studies & Commerce

University of Jaffna

Information systems exist in the context of an organization; they do not operate in isolation. There are a number of definitions of organizations. An organization is a relational coordination of activities of a group of people for the purpose of achieving some goal. There are many different types of organizations with different types of goals.

Organizational structure and design

There are many factors that influence the structure and design of modern organizations. New information technology also offers opportunities to create exciting new forms of organizations,

Uncertainty: One of the major factors influencing organizations is uncertainty. Many authors suggest that managers try to eliminate or reduce uncertainty. An organization and its managers confront many different types of uncertainty. Market uncertainties exist when the firm does not know how a product will be received, potential demand, response from competitors, and so on.

Specialization: Another major consideration in organization design is specialization. The information services department is highly specialized and requires a level of technological proficiency on the part of its staff.

Coordination: When there is specialization, one task of management is to coordinate the diverse specialties to achieve the goals of the organization. Management must balance differing orientations and resolve disputes between specialized subunits.

Interdependence: Interdependence is an important consideration in organization design. How do the different departments or subunits within the organizations depend on each other? In designing an organization or modifying the design various interdependencies must be coordinated.

Creating new types of organizations

Technology makes it possible to create new forms of organizations through the use of different design variables. A variable is something that takes on different values.

Examples of key organizational design variables to use to build organization

Conventional and IT design variables

Class of variables	Conventional design variables	IT design variables
Structural	Definition of organizational subunits Determining purpose, Output of subunits Reporting Mechanisms Linking Mechanisms Control Mechanisms Staffing	Virtual Components Linking Mechanisms Electronic Linking Technological leveling
Work Process	Tasks Workflows Dependencies Output of process Buffers	Production automation Electronic workflows Virtual Components
Communications	Formal Channels Informal Communication/Collaboration	Electronic Communication Technological matrixing
Inter-organizational relations	Make versus buy decisions Exchange of materials Communication mechanisms	Electronic customer/supplier relationship Electronic linking

From Lucas and Baroudi,1994

The above table conventional design variables drawn from the literature on organization design are contrasted with new kinds of IT design variables. The information technology is defined to include computers, communications, video conferencing, artificial intelligence, virtual reality, fax, cellular and wireless phones and etc. The problem with conventional organization design literature is its failure to recognize the new design variables enabled by information technology. The new IT-enabled variables may be totally distinct from traditionally design variables; example when we examine “virtual corporations”.

Conclusions

Older legacy system often perform critical tasks for the firm. These systems usually run on mainframe computers and are very large and complex. Information technology interacts with organizations and can be used to change the structure of the organization and its sub units. There are a number of IT-enabled variables that can be used to design organizations. They supplement and sometimes replace traditional organizational design variables. Finally organizations and people play an extremely important role in the development and success of technology.

JSA Activities

The Jaffna Science Association organized a brainstorming session on '*Northern Education system: present and the way forward*' on 23 July 2016. The event was held in Sabalingam Auditorium, Jaffna Hindu College at 16:00 – 18:00

The session primarily focussed on

- Present status of the educational system: Observations of the stakeholders of system
- NP educational system and the society: Responsibilities of the society and schools.
- Success stories of Old Students' Associations: Roles and Responsibilities of OSAs.
- Immediate steps to be taken on this: Plans of the stakeholders of system.
- Future scope: Suggestions from the participants.

Details of News Paper Article published by JSA-Section A in Valampurii		
Date	Title	Author / Affiliation
13-05-2016	இலங்கையில் வடக்கு மாகாணத்திலிருந்து பாதீனிய (Parthenium hysterophorus) தாவரத்தினை அழிப்பதற்கு பயனுள்ள உயிரினவியற் கட்டுப்பாடு – ஓர் அறிமுகம்	திரு. ஞானமுத்து அன்ரன் சாள்ஸ் ஆசிரியர் யா/புங்குடுதீவு மகாவித்தியாலயம்
27-05-2016	கவனிக்கவைக்கும் கலப்புன்னங்கங்கள்	ஸ்ரீ. ஜஸ்மிகா தரம் 11 யாழ் உடுப்பிட்டி மகளீர் கல்லூரி வல்வெட்டித்துறை
10-06-2016	இரக்கமில்லா இரசாயனங்கள்	ஸ்ரீ. ஜஸ்மிகா தரம் 11 யாழ் உடுப்பிட்டி மகளீர் கல்லூரி வல்வெட்டித்துறை
24-06-2016	பல்பகுதியங்கள்: ஒரு பசுமைத் தொகுப்பு	ரா. பாத்திமா நிப்லா Demonstrator, Department of Chemistry, University of Jaffna
08-07-2016	தமிழ் இலக்கியங்கள் காட்டும் அறிவியல் சிந்தனைகள்	கே. எம். செல்வதாஸ் ஆசிரியர் யா/உடுத்துறை மகா வித்தியாலயம்
22-07-2016	பூகோள வெப்பமயமாதலிலிருந்து புவிவியக் காப்போம்	நொ. அன்றியா சாந்தனா உயிரியல் பிரிவு மாணவி யா/சுண்டுக்குளி மகளீர் கல்லூரி



Please send your comments, suggestions, and articles for the next issue to
Dr. (Miss.) S. Rasalingam, the Chief Editor/JSA, Department of Chemistry, University of Jaffna