



# JSA Newsletter

Jaffna Science Association, Jaffna.

## Message from the President

The JSA was founded nearly two decades ago, for the purpose of serving local scientific and school community in their scientific endeavors. The main aim is: dissemination of knowledge, conducting school science programme, creating awareness among the administrators and public by focusing activities on special themes (selected annually). The executive committee selected "sustainable development of the region" as the theme of the year. Sectional committees have already embarked on activities by having a sub theme of their choice.

At present, for us "development" means rebuilding the region from the ruins and destruction caused by three decades of war. Rebuilding of course needs to address housing, health, economy, agriculture and educational needs of the region, which is indeed a challenging task for all concerned, as our region is yet to enjoy political rights and still under the control of central power which is traditionally known for ignoring the plight of the region.

Hence the JSA decided to initiate activities to bring about awareness and discussions on the development issues of the region. Further, the

sectional committees and the executive committee are now organizing activities in many fronts such as school science competitions (quiz, exhibition, oratorical), refresher seminar/workshop for science teachers, newspaper columns, public lectures etc, to fulfill the mission of the JSA.

I am indeed extremely happy in steering the JSA into the forthcoming 18<sup>th</sup> annual sessions with the support of highly spirited members of executive and sectional committees. Active participation of the JSA members, public and school science community in the organized activities has been inspiring the JSA to march forward with enthusiasm to achieve the aim.

Looking forward to meet all members on the 18<sup>th</sup> annual sessions, to be held on 6, 7, 8, April 2011.

Dr.S.Srisatkunarajah,  
President, Jaffna Science Association.

Head / Department of Mathematics & Statistics,  
University of Jaffna, Jaffna.

## Prof.K.Balasubramaniam Gold Medal – 2011

Applications are entertained till January 15, 2010 from Scientists in Sri Lanka for the above award for an outstanding research achievement in any scientific field.

For application form and details of the award, please contact Prof.P.Ravirajan, JSA General Secretary, Department of Physics, University of Jaffna, Jaffna.

T.P. No: 0212225924.

Email: [jaffna.science.association@gmail.com](mailto:jaffna.science.association@gmail.com)

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## Editorial

# Sustainable Development in the aftermath of War

The theme of the year for JSA is "Sustainable Development". Selecting this theme is due to the situation evolved after the war was over in mid 2009 and the emphasis diverted to development of North-East. But our question now is whether the slogan "Development" is only a "Political Hypocrisy" or a meaningful attempt of "Socio-economic and Socio-political Changes". Hence, we felt that it is our duty to verify the approaches adopted in the activities in the region and to motivate the working channels in proper directions to achieve the so-called development. Hence, the JSA decided to focus on "Sustainable Development" (SD). In this context, some facts to enable the members to work towards the goals are given:

## What is Development?

The meaning of "Development", its importance, objectives and how to achieve it are being debated for long time. The modern definition of development is "Comparatively better and qualitatively or quantitatively measureable positive changes in social, economic, and political environments prevailing in a region or a country". In another context, it is defined to be "An improved situation of a region, where poverty, unemployment rates, and social imbalance are reduced or minimized".

In addition, a development perspective could be viewed as "Adequate income is receivable by each and every family living in the region", "All working members of a family have employment or feasible livelihood activities", "All members of a family have the possibilities of getting education, health care and other essential services", and "All adult citizen of the country in the region are given opportunities in participating in the social, economic and political processes of the Government in the region and allowed to contribute in decision making in such processes".

In this respect, it is said that the "Development" is not merely physical growths of resources and economy, but should create meaningful social, economic and political changes in the region.

## What is Sustainable Development?

There are a number of definitions to characterize "Sustainable Development (SD)". It is being globalized to adopt a common approach because the stake-holders of development projects come from different agencies. It is said in global context that it is very difficult to achieve SD at regional level or

even at national level. Hence, SD is globally defined to be "A development process to fulfill the requirements of the present generation without affecting the ability of future generation in acquiring their requirements". This definition explores that SD is merely a globalized life model and not confined within a time span and to a generation.

The SD is also characterized as a combination of "Environmental Protection" and "Economic Development" and simultaneous implementations. Issues of "Environmental Protection" and "Economic Development" are not different. It is impossible to achieve development while the resources are deteriorated. These two issues are synchronized and hence integrated management approaches in development issues are essential to achieve SD. We can see that many economic projects have resulted in the deterioration of resources in the regions and led to long term health hazards to the local population.

It is to be noted that almost all the environmental effects are inter-related to each other, economic changes with natural resources are related to ecological changes and economic and ecological problems are related to social and political factors.

Establishing a body for conservation of natural resources, selecting development projects dealing with environmental protection, preventing pollution from the development activities in air, sea and land, obtaining the participation of the local population in the development process and having a system of management for flexible decisions in critical issues are some key issues to be noted in achieving SD.

SD has two main creative components, which are: "Considerations of essential needs of poor mass" and "Limitations given by the society and technology in the capability of environment to face these essential needs". However, the SD operates to fulfill the long term needs of all the people.

## Objectives of Sustainable Development

The principal objective of SD, globally proposed, is "All the countries should review the practical effects of their development policies and implementations on World's ecological conditions and on their own economic development". This goal has a number of specific objectives, for reviewing and motivating:

- The use of innovative mechanisms in projects. That is increasing human capability for intellectually using the resources without wastages.
- Minimizing the use of energy in development process and visible excellent positive social impacts on the economic development.
- Fulfilling the essential needs of the growing populations in the developing countries. This means making sure the consumable products and services have minimum standards.



- Maintaining steady population growth and sustainable population level. This long-term issue can not be easily achieved in our country.
- Maintaining the natural/other resources. The negative effects or hazards on the resources would be minimized if the people use alternative resources or resources from other regions.
- Use of appropriate technology. Technology used on development should be appropriate to the public considering the available human resources.

### Approaches of Sustainable Development

The key approach to practically achieve SD in any developing region is not through a single channel, but should be an integrated channel of multiple sub-channels as defined above. The following are three of them identified by the regional planners.

#### (1) Social Approaches

Priorities given to the people participation in development projects resulted in improvements in social structure and social welfare and hence increased investments in social segments will make positive impacts in development. Failure of such moves resulted in the deterioration of many development projects.

#### (2) Economic Approaches

Input-output analysis, especially monetary valuations of activities of development projects qualitatively or quantitatively will show the economic value of the projects. Its positive and negative impacts could be evaluated. Re-evaluation in the continuing process is one of the key approaches to review the development projects to determine the sustainability.

#### (3) Ecological Approaches

Ecologists usually concentrate on the function of regular eco-system for the achievement of socioeconomic development. Safeguarding the natural resources from hazards, regularizing the human influence on the usage of natural resources, implementing the environmental protection laws properly are some of the approaches.

### Relevance to Jaffna Region

The war in North-East is supposed to be over. It originated from the Jaffna region and ended in the nearby Wanni region. The development process has begun in the entire province and hence the development project planners and the regional administrators have to concentrate on the issues indicated above pertaining to the "Sustainable Development" to help the future generations of the region.

Prof.C.Elankumaran,  
Chief Editor, Jaffna Science Association.

Associate Professor, Dept of Economics, University of Jaffna.

## ENVIRONMENTAL SUSTAINABILITY

### : FRESH WATER

On behalf of the Pure Science section (Section 'A'), I am pleased to communicate to the members on our sub theme. The sectional committee of Pure Science section identified "*Environment and Sustainable Development*" as the sub theme, which was selected to contribute to the theme of the year "*Sustainable Development of the Region*".

One of the major threats to environmental sustainability in our region is the ground water pollution. Ground water, the sole source of fresh water in the region, is heavily contaminated by disease causing micro-organisms. Leachate from improper septic systems, poor agricultural practices, which release pesticides and other chemicals into the water and careless disposal of hazardous house-hold products are found to be the key reasons for contamination.

Fresh water is vital for our development needs. As development advances, in most instances, the demand for water will also increase on a per capita basis for personal, commercial and agricultural purposes. Release of large proportion of wastewater into the environment with little or no treatment is economically, socially and environmentally unsustainable. Low water quality not only reduces the availability of water resources for specific uses but also has adverse implications on public health.

Even though disinfection at the primary sources is being carried out to some extent, secondary disinfection practices in the distribution systems are very poor. Presently, rain water harvesting is emerging as a feasible long-term strategy to tackle the increasing pressure on fresh water resources of Sri Lanka. Rain water harvesting with artificial recharge may be a viable source to restore depleted ground water systems in our region.

In order to bring awareness on the need for fresh water and environmental sustainability among the school children and general public, the Pure Science section organizes popular talks and publishes articles in newspapers.

Dr(Mrs).M.Senthilnathanan,  
Chairman, Section A – Pure Sciences

Senior Lecturer, Dept of Chemistry, University of Jaffna.

## Life Members – Sections A & B – Enrolled in 2010

### Section A

1. Ms. R. Sivarajah (JSA/A/L/10/01)  
Kanagasabai Road, Manipay.
2. Ms.S.Nagendran (JSA/A/L/10/02)  
Ponnaiah Lane, Anaikoddai.
3. Ms.S.Rasalingam (JSA/A/L/10/03)  
Navalar Road, Jaffna.
4. Mr.M.Kohulan (JSA/A/L/10/07)  
Vaddukoddai North, Siththenkerny.
5. Mr.S.Arumairajan (JSA/A/L/10/08)  
Karanavai South, Karaveddy.
6. Mr.T.Mathanarajan (JSA/A/L/10/09)  
Puththalai, Puloly.
7. Ms.N.Supathini (JSA/A/L/10/10)  
Koomankulam, Vavuniya.
8. Ms. S. Tharmila (JSA/A/L/10/19)  
Meesalai North, Chavakachcheri.
9. Ms. R. Ajantha (JSA/A/L/10/20)  
CMS Lane, Kokkuvil.
10. Ms. S. Sutharshiny (JSA/A/L/10/21)  
Adiyapatham Road, Thirunelveli.
11. Dr.(Ms). D.Hoole (JSA/A/L/10/30)  
Chemmany Road, Nallur.
12. Ms.T.Thabothanayagam (JSA/A/L/10/31)  
Station Road, Kokkuvil.
13. Mr.A.Anapayan (JSA/A/L/10/32)  
Sivankovilady, vaddukoddai.

### Section B

1. Mr.V.Surendranathan (JSA/B/L/10/11)  
King's avenue, Urumpiray.
2. Ms.B.Pavalarani (JSA/B/L/10/12)  
Suthumalai East, Manipay.
3. Mr.V.Vinoharan (JSA/B/L/10/13)  
Puttalai, Puloly
4. Mr.S.Navaneethakrishnan (JSA/B/L/10/15)  
Kadaichamy Lane, Neeraviyady.
5. Mr.T.Thevatharsan (JSA/B/L/10/22)  
School Lane, Sangarathai.
6. Mr.T.Kokul (JSA/B/L/10/23)  
Sembikaladdy, Idaikadu.
7. Ms.M.Vijitha (JSA/B/L/10/24)  
Wyman Road, Jaffna.

8. Mr.A.Rasekaran (JSA/B/L/10/25)  
Vanniyasingam Lane, Kondavil.
9. Mr.R.Sukuntharaj (JSA/B/L/10/26)  
Kalainagar, vaddukoddai.
10. Mr.K.Santhanakrishnan (JSA/B/L/10/27)  
Thurkapuram, Tellippalai.

## Jaffna Science Association Sectional Committees

### Section A - Pure Sciences

Chairman	: Dr(Mrs).M.Senthilnathanan
Secretary	: Dr.K.Velauthamoorthy
Editor	: Mr.S.Selvarajan
Committee Members	: Dr(Mrs).A.Sivaruban Dr.P.Sevvel Mr.S.Ketteswaran Mr.K.Selvavinayakam

### Section B - Applied Sciences

Chairman	: Mr.K.Thabotharan
Secretary	: Mr.K.Ananthakrishnan
Editor	: Prof.C.Elankumaran
Committee Members	: Mrs.K.Chandrasekar Mrs.M.Rajaram Mr.S.Sivaskaran Ms.S.Ramachandran

### Section C - Medical Sciences

Chairman	: Dr.N.Rajeshkannan
Secretary	: Dr.S.SivaGanesh
Editor	: Dr(Mrs).A.Sritharan
Committee Members	: Dr.R.Surenthirakumaran Dr(Mrs).M.C.Srikanthan Dr(Mrs)K.Murukananthan Mrs.L.Kamalaruban

### Section D - Social Sciences

Chairman	: Mr.S.S.Uthayakumar
Secretary	: Mrs.S.Ravinthiran
Editor	: Mr.R.Rajeshkannan
Committee Members	: Dr.S.Santhirasekaram Mr.K.T.Ganesalingam Mrs.T.Sivaskaran Mrs.V.Ravisankar



## Accomplished Activities – 2010

### Section A – Pure Sciences

1. Popular Talk on 11.05.2010  
(1) Introduction to Amphibians and Reptiles of Sri Lanka. By Mr. Anslem de Silva, Senior Herpetologist in Sri Lanka.  
(2) Snake bite: First aid and Management. By Prof. S.A.M. Kularatne, University of Peradeniya, Peradeniya.
2. Popular Talk on 23.06.2010  
Quality Enhancement in University Education  
By Prof. Uma Cumarasamy, Open University of Sri Lanka.
3. Popular Talk on 13.07.2010  
Environment and the Law in the Context of Post-war Development By K. Guruparan, Department of Law, University of Jaffna.
4. Popular Talk on 27.08.2010  
சவால்களை எதிர்கொள்ளும் இலங்கைப் பல்கலைக் கழகக் கல்வி. By Dr. Ammankili Murugadhas, Department of Languages, Eastern University of Sri Lanka.
5. Popular Talk on 20.09.2010  
The fundamental building blocks of Universe. By Prof. W.G.D. Dharmaratna, University of Ruhuna, Matara.
6. Popular Talk on 19.10.2010  
Reproductive needs of adolescents & adults in Jaffna district. By Dr. R. Surenthirakumaran, Department of Community Medicine, University of Jaffna.
7. Popular Talk on 23.11.2010  
Layered Double Hydroxides. By Prof. (Mrs.) R. Mageswaran, Department of Chemistry, University of Jaffna.

### Section B – Applied Sciences

1. Popular Talk on 22.06.2010  
Leadership development in today's World.  
By Selvaretnam Raghavan, Director & Consultant, Bartleet group of Companies.
2. Popular Talk on 09.07.2010  
How to do Proper Data Analysis. By Bakeerathan Gunaratnam, Ph.D Student, Case Western Reserve University, USA.
3. Popular Talk on 26.07.2010  
The Art of Living : An introduction. By K. Senthil-kumaran, The Art of Living Global Organization.
4. Popular Talk on 29.07.2010  
Access to Information on Sri Lankan Publications.  
By Upali Amarasinghe, Director, NILIS, University of Colombo.
5. Popular Talk on 06.08.2010  
Graduate Studies in the USA. By Nelum Senadira, Student Advisor, Fulbright Commission, Sri Lanka.
6. Popular Talk on 14.09.2010  
Localizing free and open source software. By Mr. Kengatharaiyer Sarveswaran.
7. Popular talk on 26.10.2010  
Introduction to IT Industry and Career Guidance.  
By Mr. Alan Saththiyadas.

### Membership Fee in JSA

Life Membership	- Rs. 2000
Ordinary Membership	- Rs. 500
Student Membership	- Rs. 100

Application forms are available from sectional secretaries - Treasurer.

### Jaffna Science Association 18<sup>th</sup> Executive Committee

President	: Dr. S. Srisatkunarajah	Assistant Treasurer	: Mrs. S. Arulanantham
Past President	: Prof. K. Sivapalan	Chief Editor	: Prof. C. Elankumaran
President Elect	: Dr. G. Mikunthan	Chairman - Section A	: Dr. (Mrs.) M. Senthilnathanan
General Secretary	: Prof. P. Ravirajan	Chairman - Section B	: Mr. K. Thabotharan
Assist. Gen. Secretary	: Dr. P. Abiman	Chairman - Section C	: Dr. N. Rajeshkannan
Treasurer	: Mr. S. Srikanthan	Chairman - Section D	: Mr. S. S. Uthayakumar



## Section C – Medical Sciences

1. Journal Club on 06.05.2010  
'The Geographical Pathology of Malignant Tumors in Sri Lanka' in Ceylon Medical Journal. By Dr.R.Surenthira kumaran, Faculty of Medicine, Univ. of Jaffna.
2. Journal Club on 07.06.2010  
'Prevalence of diabetes in China' in New England Journal of medicine. By Dr.N.Rajeshkannan, Dept. of Community Medicine, University of Jaffna.
3. Journal Club on 10.08.2010  
Cushing Disease: A review. By Milani Sivapiragasam, Faculty of Medicine, Univ. of Toronto, Canada.
4. Journal Club on 04.09.2010  
Discussion on awareness about cutaneous lava migrants among devotees of Nallur temple. By Dr.S. Kannathasan, Dept of Pathology, University of Jaffna.
5. Journal Club on 01.12.2010  
Paper on 'Immigrants, Ethnicity, and Type-I Diabetes Risk. By Dr.S.Balakumar, Dept. of Bio-Chemistry, Univ of Jaffna.

## Section D – Social Sciences

1. Seminar on 13.05.2010  
English Language Skills for G.C.E(A/L) Science stream students. By Mrs.S.Eavindran, ELTC, Univ off Jaffna.
2. Seminar on 20.05.2010  
In the History of Sri Lanka - Historically important places - Mapping work. By Mrs.S.Arulanandam, Dept. of History, University of Jaffna.
3. Special Seminar on World's Environmental Day (உலக சுற்றுநாடல் தினம்) on 23.06.2010  
(1) "யாழ்ப்பாணக் குடாநாட்டின் சூழல் மாற்றமும் விவசாய அபிவிருத்தியில் அதன் தாக்கமும்"  
By கு.மிகுந்தன், விவசாயஉயிரியல் துறை, Univ off Jaffna  
(2) "யாழ்ப்பாணக் குடாநாட்டில் சுற்றுச் சூழல் பிரச்சனைகள்."  
By பிரதீபா விபுலன், புவியியற் துறை, Univ off Jaffna.  
(3) "மாறிவரும் காலநிலையும் யாழ்ப்பாணக் குடாநாடும்"  
By நா.பிரதீபராஜா, புவியியற் துறை, Univ off Jaffna.
4. Popular Talk on 14.07.2010  
Acupuncture, acupressure and natural herbs : An introduction to modern treatment without side effects. By S.Thirugnanam Coordinator, Real Dreams, Tiens Health Care, Vavuniya.
5. Popular Talk on 16.07.2010  
Teaching Science Subjects in English Medium. By Mrs.S.Ravindran, ELTC, University of Jaffna.
6. Seminar on 20.08.2010  
(1) Constitution making in Multi-ethnic societies. By Dr.Jayampathy Wickremaretna, Centre for Multiethnic studies, Colombo.  
(2) 13<sup>th</sup> Amendment to the Constitution of SL. By K.Guruparan, Department of Law, UoJ.

### 7. Popular Talk on 31.08.2010

இலங்கை தொழிற்சட்டங்களும் அண்மையில் ஏற்பட்ட மாற்றங்களும் - ஓர் பகுப்பாய்வு. By K.Guruparan, Dept. of Law, University of Jaffna.

### 8. Popular Talk on 09.09.2010

யாழ்ப்பாண தேச வழமைச்சட்டம் - ஓர் மீள் பார்வை. By K.Guruparan, Department of Law, Univ off Jaffna.

## Essential Public Health Functions (EPHF)

Jaffna Science Association section c correctly identified the theme of the year as "Sustainable development in Public Health". To have the sustainable development, it is essential to understand the Essential Public Health Functions (EPHF) by all stakeholders. This is an attempt to popularize the Essential Public Health Functions (EPHF) among public.

The Pan American Health Organization / World Health Organization (PAHO/WHO) defines the Essential Public Health Functions (EPHF) as the indispensable set of actions, under the primary responsibility of the state, that are fundamental for achieving the goal of public health which is to improve, promote, protect, and restore the health of the population through collective action.

PAHO/WHO defined the 11 Essential Public Health Functions (EPHF) and developed a methodology that allows countries to evaluate in a comprehensive manner their public health systems.

- EPHF 1 - Monitoring, evaluation, and analysis of health status
- EPHF 2 - Surveillance, research, and control of the risks and threats to public health
- EPHF 3 - Health promotion
- EPHF 4 - Social participation in health
- EPHF 5 - Development of policies and institutional capacity for public health planning and management
- EPHF 6 - Strengthening of public health regulation and enforcement capacity
- EPHF 7 - Evaluation and promotion of equitable access to necessary health services
- EPHF 8 - Human resources development and training in public health
- EPHF 9 - Quality assurance in personal and population-based health services
- EPHF 10 - Research in public health
- EPHF 11 - Reduction of the impact of emergencies and disasters on health

Dr.N.Rajeshkannan,  
Chairman, Section C – Medical Sciences

Dept of Community Medicine, University of Jaffna.



## Life Members – Sections C & D Enrolled in 2010

### Section C

1. Dr.S.Umasuthan (JSA/C/L/10/16)  
Temple Road, Jaffna
2. Dr.T.Balakumaran (JSA/C/L/10/17)  
Punnalaikadduvan, Chunnakam
3. Dr.M.Umashankar (JSA/C/L/10/18)  
Soisapura Flats, Moratuwa.
4. Mr.S.Thuvaragan (JSA/C/L/10/28)  
Kumarakoddam, Kondavil
5. Dr.S.Kumaran (JSA/C/L/10/33)  
Alwai west, Point Pedro.
6. Mr.R.M.G.Karunaratne (JSA/C/L/10/34)  
Wegama, Narangala, Hali-Ela.

### Section D

1. Dr. K. Kajavinthan (JSA/D/L/10/04)  
Alaveddy East, Alaveddy.
2. Mr. K. L. Ramanan (JSA/D/L/10/05)  
Sanguvely, Manipay.
3. Ms. S. Sivagurunathan (JSA/D/L/10/06)  
Palaly Road, Thirunelvely.
4. Mr.V.Suntharesan (JSA/D/L/10/14)  
Puloly North Point Pedro.
5. Ms.BJ.Rasanen (JSA/D/L/10/29)  
Chulipuram Centre, Chulipuram.
6. Mr.V.Kumaradeepan (JSA/D/L/10/35)  
Sri Sidhartha Road, Kirulapona.
7. Mr.M.Karunanithy (JSA/D/L/10/36)  
Moolai, Chulipuram.
8. Mr.S.Sivesan (JSA/D/L/10/37)  
Puttur East, Puttur.
9. Dr.S.Darshanam (JSA/D/L/10/38)  
Amman Road, Nallur.

## Release of Sectional Bulletin Pirayoga Vingnana Sudar by Section B பிரயோக விஞ்ஞானச் சுடர்

The sectional bulletin of Section B named as "பிரயோக விஞ்ஞானச் சுடர்" is being released after many years by the third week of December 2010. This issue contains articles written mostly in Tamil in the field of Information Technology, useful to the secondary school teachers and students. Copies of this magazine are available from the Secretary of Section B with the price of Rs.50.

## Workshop for Chemistry Teachers Organized by Section A

Section A of the JSA organized to conduct a two-day workshop on "Laboratory based Experiments in Chemistry" for school teachers, those who teach GCE (A/L) classes, in the Northern Province on December 19 & 20, 2010 at the Department of Chemistry, University of Jaffna. This workshop will provide hands on experience in conducting Chemistry experiments at school laboratories.

## Congratulations for National Awards won by the members of JSA

**Dr.S.N.Surendran**, Senior Lecturer in Zoology, University of Jaffna was awarded - **Presidential Award** in recognition of research works published in indexed journals in 2006.

**Prof.P.Ravirajan**, Associate Professor in Physics, University of Jaffna was awarded - **Presidential Awards** in recognition of research works published in indexed journals in 2004 & 2006.

**Prof.G.Mikunthan**, Professor in Agricultural Biology, University of Jaffna was awarded - **National Award for Popularization of Science** in recognition of his contribution and dissemination of science by the ministry of science and Technology.

## Sub-Themes of the Year for Sections of JSA

- Section A : Pure Science – Environment and Sustainable Development  
 Section B : Applied Science – Sustainable Technological Innovation and Development  
 Section C : Medical Science – Sustainable Development in Public Health  
 Section D : Social Science – Sustainable Socioeconomic Development



## From the General Secretary's Desk

Objectives of JSA are to promote scientific research, disseminate science knowledge and apply scientific findings relevant to the region. Four Sections: Pure Science, Applied Science and Technology, Medical Science and Social Science have been instituted to meet the objectives of the Association since the establishment of the association in 1991.

It is encouraging to note that more than sixty members including forty life members joined the JSA during the period April-November 2010 to strengthen the activities of JSA. To fulfill the objectives of the JSA, I am pleased to inform that number of useful activities: popular talks, seminar and journal clubs have been successfully organized by the sections as indicated in page 5 & 6 as accomplished activities. In addition, thirteen science articles have been published in the Valampuri Daily Newspaper by Section A as fortnight science column to disseminate science knowledge.

Please find below the details on abstract processing, annual sessions and School Science Programmes.

### Important dates of abstract processing

Members, kindly make note of the timeline of the review process of the abstracts to be presented in 18<sup>th</sup> Annual Sessions.

29.07.2010	Call for abstracts
15.10.2010	Submission of abstracts
05.11.2010	First screening committee meeting
15.11.2010	Sending abstracts to referees
30.12.2010	Perusing the referee reports by the screening committee
10.01.2011	Corresponding with author on acceptance/revision
21.01.2011	Submission of revised abstracts
28.01.2011	Recommendation of the screening committee
07.02.2011	Submission of final abstracts
14.02.2011	Decision by Executive Committee of the JSA

### 18<sup>th</sup> Annual Sessions

6, 7, 8 April 2011

06.04.2011	- Inauguration - Gold Medal Lecture - Theme Seminar - Chairperson Address
07.04.2011	- Chairperson Address - Popular Talk - Research Sessions - Review Lecture
08.04.2011	- Chairperson Address - Annual Sectional Meeting - Annual general Meeting - Award of Prizes - Presidential Address

### School Science Program

School Science Program committee chairs by the president – elect has formulated to conduct the following contests among the school students of the region with a view of providing opportunities to the students to express their skills.

1. Quiz	2. Essay	3. Oratorical Contest	4. Exhibition
5. Poster Preparation	6. Drawing	7. Documentary Film	8. School Garden

These contests are designed to serve as a tool to disseminate scientific knowledge among school students.

Compiled and Edited by the Chief Editor / Jaffna Science Association.

Please send your comments, suggestions and further information to include in the next issue to Prof.C.Elankumaran, The Chief Editor/JSA, Department of Economics, University of Jaffna, Jaffna on or before 31<sup>st</sup> January 2011.