



# JSA Newsletter

Reg.No: Ja/GA/PI/CA/28

Jaffna Science Association, Jaffna, Sri Lanka

## Editorial

### Focus on Reconstruction Challenges

The war is said to be over and the people from all sections have already started talking about post-war development of Northern and Eastern parts of Sri Lanka. Tremendous build-ups are seen everywhere in these parts of the country in almost all the development sectors. But the natives, specially Tamilians of these parts are putting some virtual obstacles and refusing to co-operate in some specific issues as they suspect that the government machinery is working with many hidden agenda to deprive the socio-cultural identities and cultural heritages of the region.

This column focuses on the challenges to be faced in reconstruction activities as the theme of the JSA this year is 'Sustainable Development', which is really needed to the people of these parts of the country. The peace process between 2002 and 2008 was seen as part of a broader reconstruction process in which the ceasefire agreement was one of such several steps taken in all overall conflict transformation process.

The main argument lies in the challenge to relate the conflict transformation to all levels, the elite level, middle range level, and the grassroots level, simultaneous and building viable relations within and between each level. Further, the way key players the negotiations shifted agendas and strategies during the process, only spurred mistrust in an already fragile peace process.

The focus on crisis management issues overshadowed the few long-term peace building initiatives. The neglect of long-term initiatives thereby prevented the opportunities comprehensively and all embracing draw each level into the conflict transformation process. These much needed relationship and trust building efforts could in turn have tackled the key issues of the conflict, as well as been used to explore the vision of peace that they jointly seek to achieve. Neither did a critical mass of a mobilizing force from civil society and the grassroots levels ensure to pressure extensively for building peace and hence acceptable reconstruction process.

The field experts and administrative authorities working in the peace building process and reconstruction process claim that there are three basic explanations: why international interventions for making permanent peace, implementing conflict transformation, and carrying-out of reconciliation and reconstruction process completely failed and further attempts for continuing such processes were infeasible. Those are as follows:

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1. The divergence between the complexity of a conflict and actual invested resources and the willingness to solve it.
2. The problems linked to coordination of the donors' involvements as well as local agencies.
3. The problems of investing enough as well as balancing resources to relief and state building.

Reconstruction is usually seen as the re-building of material infrastructure, while social reconstruction refers to the reconciliation processes of the people. Both emphases should be synchronized in focusing the future development processes with the above said facts for sustainable development.

A hypothetical conclusion derived from the stalemate of peace process and the current atmosphere is, there are gaps between all parties concerned and need to be decreased or eradicated.

Prof.C.Elankumaran

Chief Editor / Jaffna Science Association.

Department of Economics, University of Jaffna, Sri Lanka.

#### Prof.K.Balasubramaniam Gold Medal Lecture - 2011

Applications were called for Prof.K.Balasubramaniam Gold Medal in the last news letter. The winner of this medal for this year is Prof. Serosha Mandika Wijeyaratne, Professor in Surgery, University of Colombo, and is selected to deliver the Gold Medal lecture-2011 titled "Vascular and Transplantation Surgery in Sri Lanka: Challenges and Rewards", which will take place on 06.04.2011 at 9.30 am at Library Auditorium, University of Jaffna.



## The Internet of Things

Since its birth in the 1970s, the Internet has taken many shapes and forms. There have been many evolutionary and revolutionary applications and architectures that have shaped the Internet over the past several years and it still continues to evolve. The internet of things is the next evolutionary step in the history of the Internet. The Internet of things is the term used to define the vision of a tomorrow in which virtually every electronic device will be networked. The Internet of Things comprises a digital overlay of information over the physical world of everyday objects.

The trend that is driving the Internet of things is the lower cost and the increased usage of the internet enabled mobile and small hand held devices. Unlike the desktop and laptop computers which were the primary source of the Internet for a decade, the widespread use of small hand held devices including mobile phones and PDAs to access the Internet and the non-traditional needs of such mobile users are the driving force behind the innovative creation of the content, applications, business, entertainment and gaming in the era of the Internet of things.

In the Internet of things, our everyday objects, that are readable, recognizable, locatable, addressable, and/or controllable via the Internet, will be interconnected by means of self configuring wired or wireless networks of sensors or by other means. The everyday objects include in addition to the traditional electronic devices, the non-traditional objects that include clothes, buildings, materials and so on. Objects that are connected in the network can be identified in two ways: either by using the Internet addresses of the sensors or transmitters that are embedded in such objects or by locating these objects using their GPS locations. When objects are identified using their Internet addresses they are called tagged objects and information from these tagged objects can be discovered by browsing to their corresponding Internet addresses.

These networked objects enable the combination of physical objects and the information they generate accessible over the Internet. In addition, the communication capability of such objects also enables them to make a range of potential communications: person-to-device, device-to-device or device-to-grid. Such communications capacity and the small amounts of processing power available in these embedded objects enable them to present generated information to users therefore giving the users an opportunity to make more informed decisions and also could help the user in modifying his or her behavior in positive ways.

Many more applications of the Internet of things are being envisioned and recently, Vinton Cerf, the father of the Internet, has also pointed out one such application where the Internet of things could help humans meet the challenges of energy efficiency through improved production and storage of electricity, and smarter power management could greatly smooth the peak-and-valley pattern of energy production and demand. It is evident that the Internet of things is going to be the next evolutionary change in the Internet architecture and therefore be ready to live in a world of the Internet of things and prosper you life.

Mr.K.Thabotharan

Chairman, Section B – Applied Sciences

Senior Lecturer, Department of Computer Science,  
University of Jaffna.

## Accomplished Activities – A & B

### Section A : Pure Science

Seven popular talks conducted until Nov 2010 were mentioned in Issue 1. The following were performed from Decr 2010.

1. A two day Workshop for Chemistry school teachers was conducted on 19 and 20 December 2010 in collaboration with Field Work Centre (Thondamanaru). Altogether 59 teachers participated in this activity.
2. Popular Talk on 14.12.2010  
'Water Treatment Alternatives'  
By Prof. S. Vigneswaran, Professor of Environmental Engineering, University of technology, Sydney.
3. Informative Talk on 05.03.2011  
'Environmental Professionals in Sri Lanka'.  
Mr. Senaka Samarasinghe, Honorary and Executive Secretary, Institute of Environmental Professionals, Sri Lanka.

### Section B : Applied Science

Seven popular talks conducted up to November 2010 were mentioned in Issue 1. The following activities were performed from December 2010 to March 2011.

1. Popular Talk on 14.12.2010.  
தலைமைத்துவத்தின் இன்றைய தேவை.  
Mr.V.Arulanantham, Manager, NSB, Jaffna.

2. Exhibition / Poster / Drawing contest

School Science Programme – 2010 / 2011

Conducted by Section B / JSA

Exhibition / Poster / Drawing contest was conducted successfully as planned on the 08<sup>th</sup> of February, 2011 and there were a total of 26 exhibits, 13 posters and 14 drawings displayed by the students of various schools of the Jaffna district. We were able to provide refreshments and lunch to the student contestants, teachers in charge and the judges. There were around 100 contestants and 15 teachers to participate and around 200 students visited to watch the exhibits at the exhibition.

Exhibition, drawing and poster presentation contests for the Wannai district schools were also conducted successfully on 14<sup>th</sup> February, 2011 and there were a total of 2 exhibits, 4 posters and 5 drawings displayed by the students of various schools of the Wannai district.

3. Pirayoga Vingnana Sudar

This is a sectional informative magazine, and was released on 27.01.2011. A total of 300 copies were printed and distributed among school students and teachers.

### Membership Fee in JSA

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

Application forms are available from all the sectional secretaries.



## Sustainable Economic Development

The Jaffna Science Association identified "Sustainable Development of Jaffna Region" as theme of the year.

Sustainable development is defined to be "Fulfilling the basic needs of all, broadening of all opportunities to satisfy their ambitions for better life". FAO's definition for Sustainable Development is "Directing technological changes so as to make certain the basic management of the natural resources, needs of the present and future generations and their availabilities".

Sustainable Development includes 2 components:

1. Concept about needs: Particularly, Essential needs for the poor people of the world.
2. To meet these needs, thinking about the constraints laid by technology and society on the capacity of the environment.

### Objectives of Sustainable Development

1. Reviving growth for stable population level
2. Economic Development that has less energy intensity and orderly social impact
3. Meeting the essential needs of the expanding population in the developing countries
4. Maintaining and improving of the resource base
5. Using of technology and performing Distress Management. Public Sector policies ensuring that impacts are not caused through technologies
6. Integrating of Environmental and Economic matters in decision - taking.

Several attempts have been made regarding the designing of activities related to the sustainable development concept. The World Bank published its world development report in 1992 taking this as main theme and is developing general principles based on these policies three matters have been integrated in the sustainable development. They are:

1. Economists wish to obtain greater human benefits within the technologies found at present
2. Environmentalists are pressing to maintain the integration of the subgroups of the environment
3. Sociologists, give importance to human values to achieve Sustainable Development.

### Challenges of Sustainable Development in Jaffna

Regarding Jaffna District, considering its Sustainable Development, for past three decades war prevailed and has just ended. Due to war many people have lost their properties. Further, High Security Zones have deprived people of their lands and homes. Many women have become widows because of the loss of their husbands in war. Many have fallen to the grip of poverty due to these reasons and hence solutions should be found to economic problems of the widows.

Problems of the disabled and orphans too have an impact on Development. Also, unemployment and less income are rampant. This is also a constraint to development. The resources, particularly the underground water and sand are becoming scarce. As these become the cause for environmental problems and natural disasters, these too are challenges for the Sustainable Development.

Further, the culture of the people living here is deteriorating gradually and this too has become a challenge. The income of the majority of the people living depends on the Diaspora living abroad. After one or two decades, the connections with these people may be served. Therefore many people will be without income as they depend on the foreign remittance for their existence. This also will become a challenge to the Sustainable Development.

Education level here is falling down from its previous levels. Human resource is dwindling due to this and intellectuals are leaving the country. Thus, scholars in the Jaffna region are gradually decreasing. This factor will have an impact on the Sustainable Development of the Jaffna Region. Therefore, Sustainable Development is a challenging issue in the Jaffna Region.

**Mr.S.S.Uthayakumar,**  
Chairman, Section D - Social Sciences,

Senior Lecturer, Department of Economics,  
University of Jaffna.

## Accomplished Activities - C

### Section C : Medical Sciences

Four journal clubs and one popular talk conducted up to December 2010 were mentioned in Issue 1. The following activities were performed in July 2010 and from Dec 2010 to March 2011.

1. Popular talk on 07.07.2010  
'Role of Judicial Medical Officers in the administrative justice for children', By Dr.Hemamal Jeyawardene, UNICEF.
2. Workshop on 09.07.2010  
Conducted on 'Reproductive Health Counseling' for Counselor Teachers in Vadamaradchy Zone. By Dr.(Ms).T.Shivashankar, Dr.S.Shivashankar, (Blood Bank, JTH) Mr.S.Raveenthiran (Shanthigam), Dr.N. Rajeshkannan (Department of Community Medicine) & Miss.B.Asothai (Medical Student).
3. Journal Club on 22.07.2010  
'Research and Publication for University promotion'. By Dr.S.Kannathasan, Fac. of Medicine, Univ. of Jaffna.
4. Popular talk on 17.12.2010  
'Performing a Literature Survey', By Dr.Murali Vallipurathan, Department
5. Popular Talk on 18.12.2010  
'Occupational hazards, Health and safety at Work Place', By Prof.S.R.De A Seneviratne, Department of Community Medicine, University of Colombo.
6. Journal Club on 27.12.2010  
'Long-term risk for Hypertension, renal impairment, and CVD, BMJ. By Dr.Rohan Sambath, Faculty of Medicine, University of Colombo.
7. Workshop on 11-12.01.2011  
Conducted on 'Brain Awareness Program'. Three workshops for 'Academics', 'Engineers & Managers', 'School A/L science students'. By JSA's School Sc Committee, SLMA Non-communicable disease committee and Neuroscience Association of Sri Lanka.
8. Popular Talk on 13.01.2011  
'New Drug Development in Neuro-Science'. By Prof. Gabor Kato, CEO of Neurotech, Geneva, Swiss.
9. Popular Talk on 13.01.2011  
Demographic changes and its Medical implications in Sri Lanka', By Prof. Ann Kato, Faculty of Medicine, University of Geneva, Switzerland.
10. Popular Talk 02.02.2011  
Geriatric Care Experience in North America, By Dr.P.Somesan, Consultant Geriatrician, USA.
11. Popular talk on 03.02.2011  
'Diseases on modern civilization', By Dr.Sachi Kuhananthan, Consultant, USA.
12. Journal Club on 25.03.2011  
'A simple intervention to improve hospital antibiotic prescribing, By Dr.(Ms).K.Muruganantham, Dept. of Pathology, University of Jaffna.



## Sustainable Educational Reforms

The contribution of the society to the region should be preserved and sustained for the present and future citizens. For the last three decades the region underwent indescribable turmoil. For such a region great contribution for meaningful and sustainable development in all the aspects is indispensable. Sustainable development in the region is indispensable as war is over and peace and happiness should prevail perpetually.

Even after war there are more unprecedented challenges faced by the people. The society has forgotten the great human values taught and practiced by their elders and ancestors. People are under the illusion that obtaining mere degree certificates leading to high salaried posts is the end of their education. Parents and students have forgotten the right paths of obtaining these. It has become an urgent need to teach both moral and human values along with the other subjects. By integrating value added moral embedded learning, the society will become a leading and exemplary one for its sustainability in all the fields as there will be eternal peace and bliss.

Learning is related to the intellect. It is not mere scholarship. Familiarity with books is not knowledge. One's entire life is a process of learning. Any process of inquiry is related to learning. But basically our inquiry should be concerned with finding out what is transient and what is permanent and what is perpetual. This is true knowledge.

Present day education develops the intellect and skills but does little to develop good qualities. Of what avail is all the knowledge in the world, if it does not sustain good qualities. It is like water going down the drain. There is no use if knowledge grows while desire multiplies. It makes one a hero in words and zero in action. Education should imbue students with certain ideals. They should not allow room for petty differences and mutual recrimination. They should learn the human and moral values which reform an individual as a real human with human qualities and make him humane.

If good qualities are preserved and sustained there will be peace with justice in a world that acknowledges the rule of law and in which no nation or individual need live in fear. Education is no book worm affair. The process must include the study and appreciation of all trades, professions and guilds. It must encourage the acceptance of the good and the rejection of the bad. The root is education and the fruit is virtue.

**Mrs. Shanmugayogini Ravindran**  
Secretary, Section D - Social Sciences,

Senior Lecturer, English Language Teaching Centre,  
University of Jaffna.

## Accomplished Activities - D

### Section D : Social Sciences

1. Workshop on SPSS  
A software training program on 'Statistical Package for Social Science' (SPSS) is being conducted to the academic staff from the Faculties of Arts and Commerce & Management. By Mr. J. Robinson, Dept. of Human Resource Management, Univ of Jaffna.
2. Popular Talk on 25.02.2011  
Rural Development in Jaffna District.  
By Mr. K. Sivalingam, Former Deputy Director of Planning, North-East Provincial Council.
3. Popular Talk on 30.03.2011  
'Impact of Unplanned Physical Development in Jaffna Town Area'. By Mr. S. Ravindiran, Dept. of Geography, University of Jaffna.

### Stable Health by Ayurveda

Total health is a lifelong journey - you need to work on your health every day. Simple things you can do every day to stay healthy and happy with Ayurvedic wisdom. The main tips are;

1. Start your day with a stewed apple.

The digestive fire is waking up in the morning. It will be at full capacity when sun is high in the sky, at noon.

2. Cook your foods right.
3. Exercise every day.
4. Sleep deeper.
5. Let go of stress.
6. Flush out toxins (through the bowel and urine).
7. Power up your immunity.
8. Beautify your hair and skin.
9. Drink to your health.
10. Boost your relationship health.

Sustainable development is achieved only when the participant population or contributors maintain stable health conditions.

**Dr. (Mrs.) Anpuselvi Sritharan**  
Editor, Section C - Medical Sciences,

Senior Lecturer, Unit of Sidhha Medicine,  
University of Jaffna.

## 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	: Prof. 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



## Membership Profile Update – 2010 / 2011

### Section A (Life members)

1. Ms. R. Sivarajah (JSA/A/L/10/01)  
Kanagasabai Road, Manipay.
2. Ms.S.Nagendran (JSA/A/L/10/02)  
Ponnaiah Lane, Anaikodda.
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. Thamil (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 (Life members)

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.Ravindran
Editor	: Mr.R.Rajeshkannan
Committee Members	: Dr.S.Santhirasekaram Mr.K.T.Ganesalingam Mrs.T.Sivaskaran Mrs.V.Ravishankar



**Section C (Life Members)**

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 (Life Members)**

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.B.J.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.Darshanan (JSA/D/L/10/38)  
Amman Road, Nallur.
10. Miss.M.Kosalai (JSA/D/L/10/39)  
Indiran Amman Kovilady, Thunnalai.
11. Miss.S.Saseela (JSA/D/L/10/40)  
Somaran Thoddam, Uduvil East.
12. Mr.T.Mukunthan (JSA/D/L/10/41)  
Nihal Silva Mawatha, Kirulapone.

**Ordinary Members****Section A**

1. Miss.Kalyani Nadarajah  
Department of Physics, UoJ.
2. Mrs.Abiramy Yarltharan  
Kandy Road, Jaffna

**Section C**

1. Dr.M.Surenthiran  
Sivan Pannai Road, Jaffna.

**Section D**

1. Mr.N.Sivakaran  
Kokkuvil East, Kokkuvil.
2. Mr.V.K.Tharumarajah  
Point Perdo Road, Nallur.

**Student Members**

- |           |   |            |
|-----------|---|------------|
| Section B | - | 14 members |
| Section C | - | 04 members |

**Institutional Members**

1. J/Kokkuvil Hindu College, Kokkuvil.
2. J/Illavalai Convent M.V., Illavalai.
3. J/Jaffna College, Vaddukoddai.
4. J.Nelliyadi M.M.V., Nelliyady.
5. J/Urumpiray Hindu College, Urumpiray.
6. J/Tamil Kandiah Vidyasalai, Kandarodai
7. J/Vembady Girls High School, Jaffna
8. J/Hindu Ladies College, Jaffna
9. J/Uduvil Girls' College, Uduvil.
10. J/Union College, Thellippalai.
11. J/Mahajana College, Thellippalai
12. J/Sri Somaskantha College, Puttur
13. J/American Mission College, Uduppiddy.
14. J/Holy Family Convent, Jaffna.
15. J/St.Patricks College, Jaffna.
16. J/Palaly Teachers' Training College
17. J/Jaffna Hindu College, Jaffna.

**Sub themes of the Year on Sustainable Development**

- 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



## Sponsorship to JSA Activities

### Section A (Pure Science)

1. Chemicals  
(For Workshop to Chemistry Teachers)  
Analytical Instruments (Pvt) Ltd, Colombo
2. Lunch and Refreshments  
(For Workshop to Chemistry Teachers)  
Field Work Centre, Thondaimanaru.
3. Rs.10,000  
Labmaster's (Pvt) Ltd,  
Temple Road, Dehiwala
4. Rs.10,000  
Valampuri News Paper, Jaffna.
5. Rs.25,000  
Bank of Ceylon, Northern Province,  
Hospital Road, Jaffna.
6. Rs.5,000  
Stassen Experts (Pvt) Ltd, Colombo.
7. Rs.6000  
People's bank, Jaffna University Branch,  
Thirunelvely.

4. Rs.10,000  
CIMA, Sri Lanka.
5. Rs.5,000  
M.C.S, Palaly Road, Jaffna.
6. Rs.3,000  
City hardware, Stanley Road, Jaffna.

### Section C (Medical Science)

1. Rs.9,000  
M.Sathananthan, Colombo -4.

### Section D (Social Science)

1. Rs.6,000  
Kajamugan Hardware, Stanley Road,  
(E.S.P.Nagaratnam & Co.), Jaffna.
2. Free Printing of Invitation  
(For World Environmental Day Program)  
Guru Printers, Thirunelvely.

### Section B (Applied Science)

1. Rs.3,000  
T.S.R.Hardware Stores,  
Old Moor Street, Colombo 11.
2. Rs.2,000  
V.M.K.Traders, Palaly Road,  
Kondavil.
3. Rs.10,000  
Servalanka Foundation, Jaffna

### Congratulations for an Award won by a member of JSA

**Mr.K.Thabotharan**, Senior Lecturer in Computer Science, University of Jaffna and Chairperson of Section B was given fully funded travel award to participate in the TATA CONSUNTANCY SERVICES EXCELLENCE in COMPUTER SCIENCE (TECS) WEEK 2011, which was held in Pune, India during 03-07 January 2011.

## Annual School Science Programs

School Science Program is the one the main activities of Jaffna Science Association. Under the caption "School Science Program" this year we conducted several contests among school students studying in northern region. At the beginning of this programme a questionnaire was sent through respective Zonal Directors to all 1AB and 1C schools (altogether 172) of Northern region covering Jaffna peninsula [Zones: Jaffna, Valigamum, Vadamaradchi, Thenmaradchchi, and Delft] and Vanni [Zones: Kilinochchi, Mullaitivu, Thunukkai, Vavuniya North and Mannar]. There were 49 questionnaires received representing schools of all the educational zones and all the directors appreciated hearing this feedback exercise. Thus these contests were designed based on the comments received from the Principals of the schools.

- |  |                               |                       |
|--|-------------------------------|-----------------------|
| 1. Quiz contest                          | 2. Essay contest              | 3. Oratorical contest |
| 4. Exhibition contest (innovation)       | 5. Poster preparation contest | 6. Drawing contest    |
| 7. Documentary film (10 minutes) contest | 8. School Garden contest      |                       |

These contests were separately conducted in peninsula schools and the schools in Vanni region, as the students in Vanni areas are affected seriously and therefore they were not pooled with peninsula students. Altogether more than 200 students have participated in Quiz and Essay contests

These contests served as a tool to disseminate science among students meanwhile, help us to provide opportunities to them to express their skills. In addition, such contests will motivate them to express their hidden talents as well as give them relief from the regular educational and environmental stresses.

**Dr.P.Abiman, Assistant General Secretary.**

Senior Lecturer, Department of Chemistry, University of Jaffna.



## Winners of the School Science Competitions

JSA honours the following winners of the contests with prizes and certificates to be awarded at the prize giving of school science program on the last day of the Annual session of JSA on 8<sup>th</sup> April 2011 at 2.30 pm. The details of the winners are as follows:

Competitions	Winner (First Place)	School
Quiz written	MR. JOSEPH ANDREW VASANTHAN	ST. JOHNS COLLEGE
	MS. MYTHILY THANGARAJAH	J/METHODIST GIRLS' HIGH SCHOOL
	MR. BALASUBRAMANIAM JANAGAN	MU/MALLAVI CENTRAL COLLEGE
Oratorical	MS. NAVAKUMARAN MATHANGI	J/VEMBADYI GIRLS' HIGH SCHOOL
Exhibition (Group Event)	MR. WIFRED BENAJA MR. KUGANESAN NISHANTH MR. LOGANATHAN VIGITHAN	J/CENTRAL COLLEGE
	MS. KUMARESAMOORTHY NIGANI	J/VEMBADYI GIRLS' HIGH SCHOOL
Poster (Group Event)	MR. K. NIRANJAN MR. L. K. ARUN	M/VITHIYANANTHA COLLEGE
	MR. AMBIGAPATHY THANENTHIAN MR. SIVANATHAN SAJANTH MR. SELVAKUMAR THILAKSHAN	J/CENTRAL COLLEGE
Quiz Oral	MR. S. M. SAHLAN	MANNAR AL-ASHAR M.V.
		ST. PATRICKS COLLEGE
		MALLAWI CENTRAL COLLEGE

JSA invites all the educational institutions including schools to join the JSA as institutional members. Institutional membership fee is Rs.2000. An institution may be represented by the Head of the institution or its nominee but it does not have the voting rights at the Annual General Meeting (AGM) of the JSA. The 18<sup>th</sup> AGM of JSA is scheduled to be held on 08.04.2011 at 11.00 am.

JSA would like to thank all the academics and the following institutions for assisting the JSA by various ways to organize, conduct and evaluating the school science programs successfully.

J/Hindu Ladies College, Jaffna.  
KN/Theresa Girls College, Kilinochchi.  
J/Jaffna Central College, Jaffna.  
J/Ramanathan College, Maruthanarmadam.  
J/Nelliyady Madya Maha Vidyalaya, Nelliyady.  
J/Chavakachcheri Hindu College, Chavakacheri.  
J/Velanai Central College, Velanai.

### Most Cited Papers of Sri Lanka by a member of JSA

According to Thomson's ISI Web of Science database (2011), Sri Lanka has 17 papers as most cited papers in the world in the last 10 years. JSA is proud to note that two papers of Prof. P. Ravirajan (General Secretary/JSA) are among the most cited seventeen papers of Sri Lanka.

## 18<sup>th</sup> Annual Sessions - 2011 - Scheduled addresses and Lectures

### 06.04.2011 (Wednesday)

09.30	Vascular and Transplantation Surgery in Sri Lanka: Challenges and Rewards	Prof. S. M. Wijeyaratne
10.30	Constructed wetlands for low-cost wastewater treatment	Dr(Ms). M. Senthilnathanan
11.15	Nature is the best working capital for sustainable development of North and East	Dr. T. Jayasingam,
13.15	Application of ad-hoc mobile communication technologies for sustainable development	Mr. K. Thabotharan
14.00	Device Design Optimization : The Merging of Physics, Computer Science and Mathematics	Prof. S. R. H. Hoole
15.00	Understanding our health - A social determinant approach	Dr. N. Rajeshkannan
15.45	Metabolic syndrome: Public perspective	Dr. S. Sivansuthan

### 07.04.2011 (Thursday) - Theme seminar

09.30	Role of the Social Empowerment in the Sustainable Development of the Region	Mr. R. Rajeskannan
09.55	Role of the Financial Sector in the Sustainable Development of the Region	Mr. L. Sritharan
10.35	Role of the Public Health Sector in the Sustainable Development of the Region	Dr. A. Ketheeswaran
11.00	Role of the Education Sector in the Sustainable Development of the Region	Mr. S. Ravindranathan

### 08.04.2011 (Friday)

08.45	Opportunities for Industrial development in Jaffna District	Mr. S. S. Uthayakumar
09.30	Sustainable development of local authority area	Ms. M. Vasanthakumar
14.00	Climate Change on Agriculture: Challenges and Mitigation	Prof. G. Mikunthan

On the second day of the annual sessions (07.04.2011, 01.30 pm) 27 research papers will be presented.

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

Prof. C. Elankumaran, The Chief Editor/JSA, Department of Economics, University of Jaffna, Jaffna. 29<sup>th</sup> March 2011.