



# Super EMG India 2018

International EMG/SFEMG/QEMG  
Workshop and Neuromuscular Symposium

**Date :** 23-25 March 2018  
(Friday- Sunday)

**Venue:** AMC Auditorium, Sree  
Chitra Tirunal Institute  
for Medical Sciences &  
Technology, Trivandrum  
695 011, India

## Organising Chairman

Dr. Muralidharan Nair  
Professor (Sr. Grade) & Head, Neurology

## Organising Secretary

Dr. Abraham Kuruvilla  
Professor of Neurology

## Workshop Convenor

Dr. Sruthi S. Nair

## Treasurer

Dr. Vineetha V.S.

## Registration & Reception

Dr. Ashalatha. R  
Dr. Sapna Erat Sreedharan

## Audio-Visuals

Dr. Sajith Sukumaran  
Mr. P. Ganesh  
Ms. S. Vasanthi  
Mr. G. Liji Kumar  
Mr. N. Viji Kumar

## Hospitality & Transportation

Dr. K. Syam  
Dr. Soumya Sundaram

## Food & Beverage

Dr. P. N. Sylaja  
Dr. Ramshekhar Menon

## Spouse's Program

Dr. Divya. K.P.

## Other Logistics

Dr. Ajith Cherian  
Dr. G. Geetha  
Mr. K. S. Saji  
Mr. Koruthu Varghese  
Mr. Manoj G.S.  
Mr. Hemant Kumar

# Organising Committee

## Scientific Advisors

Dr. M. Gourie-Devi  
Dr. Sanjeev Thomas  
Dr. Thomas Iype  
Dr. Mathew Abraham  
Dr. Anand Kumar  
Dr. M. Madhusudanan  
Dr. P. C. Gilvaz  
Dr. James Jose  
Dr. C. V. Shaji  
Dr. Jacob George  
Dr. Mathew Alexander  
Dr. Suresh Nair  
Dr. Nandakumaran Nair  
Dr. Mohammed Kunju  
Dr. K. N. Shyam Prasad  
Dr. Suresh Chandran  
Dr. Gagandeep Singh  
Dr. Raj S. Chandran

## Congress Secretariat

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Congress Web Site : [www.superemgindia.com](http://www.superemgindia.com)

# Message from Director, SCTIMST

**SUPER EMG INDIA 2018: International EMG/  
SFEMG/QEMG Workshop and Neuromuscular  
Symposium 23-25 March, 2018 (Friday- Sunday)**



It is indeed a great pleasure that the Department of Neurology of our Institute is organising an International workshop on Electromyography, Single Fibre EMG and Quantitative EMG along with a Neuromuscular Symposium from 23-25 March 2017 at the Achutha Menon Centre Auditorium at Sree Chitra Tirunal Institute for Medical Sciences & Technology, Trivandrum, India. I congratulate the Organising Team for the excellent scientific content and the opportunity for skill development for the Residents, Fellows and Neurologists across the country. Electrophysiology has developed in a remarkable fashion over the last few decades from an era of rudimentary equipment in the 1970's. From an era when filters had to be set up manually for each patient as well as for each test, the specialty and the technology have grown astronomically with compact, microchip-based highly accurate equipments with changeable gains and filter settings by the touch of a button. Over the years, there has been an explosion of knowledge in the field of EMG and Clinical Neurophysiology. EMG is one of the most versatile tests which help to clarify the diagnosis of an obscure neuromuscular disorder. EMG is best considered as an extension of clinical neurological examination.

I am confident that this three day scientific fiesta with world renowned faculty in their respective fields will certainly contribute to spread the technical and scientific knowledge in the field of clinical neurophysiology and EMG. I wish this Workshop & Symposium a grand success and, I am sure that the participants will have gained substantially at the conclusion of the program, thereby creating a positive impact on management of neuromuscular diseases in the country.

Dr. Asha Kishore MD, DM

Director

Sree Chitra Tirunal Institute for Medical Sciences & Technology

Thiruvananthapuram-695 011, Kerala, India.

Phone: + 91 471 2443085, Fax: + 91 471 2446433

Website: <http://www.sctimst.ac.in>



# WELCOME MESSAGE

It gives us immense pleasure to invite you for the SUPER EMG INDIA 2018 - International EMG/SFEMG/QEMG Workshop and Neuromuscular Symposium to be held at Sree Chitra Tirunal Institute for Medical Sciences & Technology, Trivandrum , Kerala, India from 23- 25, March 2018. Over the past several years, there has been an explosion of knowledge in the field of EMG and Clinical Neurophysiology. As a result, we know a great deal about the neurophysiological findings in many diseases involving the peripheral nervous system. In the day-to-day practice of clinical neurology, EMG and clinical neurophysiology can be of enormous help in diagnosis and treatment. Indeed EMG is considered as the single most useful and versatile test to shed light on an obscure neuromuscular problem and is second only to the neurological examination. The Scientific Program consists of three days of intensive and comprehensive educational sessions on electrical aspects of neuromuscular diseases coupled with hands-on workshops by the leading International experts in the field of Electromyography and Clinical Neurophysiology. In addition to routine EMG , advanced EMG techniques like SFEMG, QEMG etc will be demonstrated during the workshop. The Institute looks forward to this event as of great significance in promoting Clinical Electromyography and hands-on training on advances in EMG and Clinical Neurophysiology for the betterment of the patients afflicted with various neuromuscular diseases.

In addition to the various electrophysiological aspects of Neuromuscular Disease , the highlight of this program will be the hands-on training in Nerve Conduction Study, EMG, SFEMG , QEMG and Chemodenervation (EMG-guided Botulinum Toxin Therapy) by the International Faculty members.

Geographically, Kerala, popularly known as "God's Own Country" , is an exotic mixture of nature's very best and today, Kerala is a traveller's paradise. Rich in its traditional values and art and progressive regarding hospitality, accommodation and communication, its natural charm is supplemented by its friendly people. Indeed, Kerala is special experience for every visitor and this Symposium and Workshop will be coupled with a memorable cultural program on the inaugural evening.

We welcome you to Trivandrum, the capital city of Kerala , a vibrant city full of life. The weather would be pleasant during March and, the venue would provide a special ambience for this event.



**Dr. Muralidharan Nair MD,DM**  
*Professor (Sr.Grade) & Head of Neurology,  
SCTIMST  
Organising Chairman*



**Dr. Abraham Kuruville MD, FRCP Edin**  
*Diplomate-American Board (Neurology)  
Diplomate-American Board (Vascular Neurology-Stroke,  
CI/NPh, Neuromuscular Medicine)  
Professor of Neurology  
SCTIMST  
Organising Secretary*





# Symposium on Electrophysiology of Neuromuscular Disease

- 1) Physiology of nerve conduction studies and waveform analysis
- 2) Clinical and EDX assessments of mononeuropathy and polyneuropathy
- 3) Differential diagnosis of facial palsy and hemifacial spasm
- 4) Motor neuron disease and Awaji criteria for ALS
- 5) EMG including visual analyses of MUPs and clinical utility of SFEMG
- 6) Strategies, planning of the consultation and reporting
- 7) Ulnar neuropathies
- 8) Brachial plexopathies
- 9) Focal peripheral neuropathies
- 10) Real and fictitious entrapment neuropathies - lessons from Nordic mythology
- 11) EMG effects of botulinum toxin

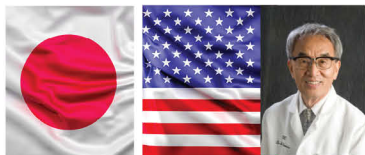
## Workshop Highlights

- 1) Motor nerve conduction studies including F-wave analysis
- 2) Sensory nerve conduction studies including inching techniques
- 3) Human reflexes including blink and H-reflex.
- 4) Basic Principles of SFEMG
- 5) Jitter measurements
- 6) Fiber density measures
- 7) Jitter in MG and LEMs
- 8) Chemodenervation (EMG-guided Botulinum Toxin therapy)
- 9) QEMG, MUNE and Repetitive Stimulation
- 10) Special Neurography Techniques





# International Faculty



**Jun Kimura, MD**

Professor Emeritus of Neurology  
University of Iowa Hospitals and Clinics, Iowa City, IA, USA  
and Kyoto University School of Medicine, Kyoto, Japan



**Janice Massey, MD**

Professor and Vice Chair  
Department of Neurology, Duke University Medical Center  
Durham, North Carolina, USA



**Bjorn Falck, MD, Ph.D.**

Senior Consultant  
Associate Professor of Clinical Neurophysiology  
Department of Clinical Neurophysiology  
University Hospital, S-75185, Uppsala, Sweden



**Sanjeev Nandedkar, Ph.D.**

Clinical Application Specialist  
Natus Neurology, USA





# Super EMG India 2018

## Scientific program

Day 1: Friday 23 March 2018		
Time	Topics	Speakers
07:30 – 08:30	Registration	
08:30 – 08:40	Welcome	
08:45- 9:30	Physiology of nerve conduction studies and waveform analysis	Dr. Jun Kimura
09:30-10:15	Strategies, planning of the consultation and reporting	Dr. Bjorn Falck
10:15-10:30	TEA BREAK	
10:30 -11:30	Workshop: Motor nerve conduction studies including F-wave analysis	Dr. Jun Kimura Dr. Sanjeev Nandedkar
11:30-12:30	Workshop: Sensory nerve conduction studies including inching techniques	Dr. Jun Kimura Dr. Sanjeev Nandedkar
12:30 - 13:00	Motor neuron disease and Awaji criteria for ALS	Dr. Jun Kimura
13:05-13:10	Group Photo ( In front of AMC Foyer )	
13:10 – 14:10	LUNCH	
14:15 – 15:30	Workshop: Unusual neurography and special neurography techniques	Dr. Bjorn Falck
TEA BREAK		
16:30 – 17:30	<b>Inaugural Ceremony</b> Presentation of Life Time Achievement Award to Dr. M. Gourie-Devi	
17:30 – 18:30	Cultural Bonanza	
19:45 Onwards	BANQUET DINNER	

Day 2: Saturday 24 March 2018		
Time	Topics	Speakers
8:30 – 09:10	Repetitive nerve stimulation	Dr. Sanjeev Nandedkar
09:15 – 09:45	Basic principles of SFEMG	Dr. Janice Massey
09:50-10:20	Jitter measurements and fiber density measures	Dr. Janice Massey





10:25- 10:40	TEA BREAK	
10:45 - 11:25	EMG including visual analysis of MUPs and Utility of SFEMG- Clinician's Perspective	Dr. Jun Kimura
11:30 - 13:00	Workshop: Jitter and fiber density measurements	Dr. Janice Massey Dr. Sanjeev Nandedkar
13:05 - 14:05	LUNCH	
14:10 - 14:40	Brachial plexopathies	Dr. Bjorn Falck
14:45 - 15:15	Differential diagnosis of facial palsy and hemifacial spasm	Dr. Jun Kimura
15:20 - 15:35	TEA BREAK	
15:40 - 17:30	Workshop: Human reflexes including blink and H-reflex	Dr. Jun Kimura Dr. Sanjeev Nandedkar
17:30 - 18:30	EMG Video Quiz - Self Assessment	Convenor: Dr Abraham Kuruvilla
19:30 onwards	BANQUET DINNER	

### Day 3: Sunday 25 March 2018

Time	Topics	Speakers
8:30 - 09:10	Focal peripheral neuropathies	Dr. Bjorn Falck
09:15 - 09:45	Clinical and electrodiagnostic assessments of mononeuropathy and polyneuropathy	Dr. Jun Kimura
09:50-10:20	Ulnar neuropathies	Dr. Bjorn Falck
10:25- 10:40	TEA BREAK	
10:45 - 11:15	Real and fictitious entrapment neuropathies - lessons from Nordic mythology	Dr. Bjorn Falck
11:15 - 13:20	QEMG and MUNE (including workshop)	Dr. Sanjeev Nandedkar
13:25 - 14:25	LUNCH	
14:30 - 15:10	EMG guided botulinum toxin injection	Dr. Janice Massey
15:15 - 16:10	Workshop: EMG guided Botulinum toxin injection	Dr. Janice Massey Dr. Sanjeev Nandedkar
16:15 - 17:00	Valedictory function	







# Super EMG India 2018

## International EMG/SFEMG/QEMG Workshop and Neuromuscular Symposium

23 – 25 March, 2018 (Friday – Sunday)

Venue: Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum, India

### Registration Form

Name : .....

Designation and Speciality : .....

Name of Institution : .....

.....

Address : .....

.....

City : ..... Pincode : .....

State : ..... Country : .....

Mobile : ..... Email id : .....

Accompanying persons :

1. ....

2. ....

3. ....

### Mode of Payment

Pay by Cash/DD/ At par multi-city cheque/ NEFT transfer

DD/ Cheque/ Transaction Number : .....

Date : .....





# Super EMG India 2018

## Registration Details

Indian Delegates (INR)					
	Early Bird (till 31 Dec 2017)	Regular (till 31 Jan 2018)	Late (till 28 Feb 2018)	Extended (till 22 Mar 2018)	Spot
Neurologists / PM&R / Physiology Consultants / Faculty	5000	6500	8000	10000	12000
Trainees (Residents/Fellows)*	3500	5000	5500	6000	7000
Neuro-Technologists in Practice	3000	4000	4500	5000	6000
Neuro-Technology Trainees*	2500	3500	4000	4500	5000
Foreign Delegates					
SAARC Countries	US\$ 150	US\$ 200			
Other International Delegates	US\$ 250	US\$ 300			

\*Residents, fellows and trainees may upload a certificate from Head of the Department / Section confirming their in-training status at the time of registration.

Online Registration available at: [www.superemgindia.com](http://www.superemgindia.com)

Details of Savings Bank Account

Account Name : Neuromuscular Symposium Trivandrum

Account No : 37100918194

IFS Code : SBIN0070029

State Bank of India, Medical College Branch, Trivandrum – 695 011, India

Email ID of Bank: [mctrivandrum@sbi.co.in](mailto:mctrivandrum@sbi.co.in)

### You can also snail mail

the completed Registration Form with payment cheque or DD/NEFT Payment details/transaction reference number to the

Congress Secretariat - Super EMG India 2018

**Dr. Abraham Kuruvilla**

Department of Neurology

SCTIMST, Trivandrum – 695 011

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Mr. Tamilalagan S.

Ms. Sreema M.S.

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Cell +91 88936 26404

Cell: +91 9207 93073

*For Travel , Hotel accommodations, Transfers and Tour Packages– Contact Congress's*

*Official Travel & Tour Operators : Riya Travels & Tours*

Mr. Sunil Kumar, Email: [sunilk@riya.travel](mailto:sunilk@riya.travel)

Tel: +91-4562-616080 Cell: +91-98471-45405, +91- 99944-49112



# SUBMISSION OF ABSTRACT / FREE PAPER

(All accepted abstracts will be presented as  
e-posters only)

## *Abstract Guidelines*

### Registration for Congress is mandatory for submission

- The Abstract must be submitted and presented in English only.
- The Abstract must not be more than 250 words and needs to be submitted in Arial font size 12. Abstracts can be submitted as a MS word Document (doc) format.
- An abstract should not contain data already published as original manuscript at the time of abstract submission or previously presented at a National or International meeting.
- Deadline for submission : 01 March 2018
- Notification regarding acceptance of the Abstract will be sent by 10 March 2018.
- In the unforeseen event of withdrawal of presentation, it should be intimated to the Congress Secretariat e-mail on or before 15 March 2018.

### For More Details Contact

Congress Secretariat-Super EMG India 2018

Dr. Abraham Kuruvilla

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SCTIMST, Trivandrum-695 011, India

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Email: superemgindia@gmail.com



# Kerala Packages

## TRIVANDRUM - KOVALAM (DAY TRIP)

- α Sree Padmanabhaswamy Temple is a Hindu temple dedicated to Lord Vishnu located in Thiruvananthapuram, India.
- α The Shanghumugam beach is on the western side of Thiruvananthapuram city and very near to Trivandrum International Airport.
- α Kovalam is a beach town by the Arabian Sea in Thiruvananthapuram city, Kerala, India, located around 16 Km from the city.
- α Museum The Napier Museum is an art and natural history museum situated in Trivandrum.

02 pax Indica	08 pax Innova
INR 4500/-	INR 6000/-



## TRIVANDRUM -KANYAKUMARI(DAY TRIP)

Pick from Trivandrum & proceed to kanyakumari covering the places of Kanyakumari Devi Temple, Padmanabhapuram Palace, Thirparappu Falls, Vivekananda rock, Thanumalayan temple, Thiruvalluvar Statue in evening saw the sunset in kanyakumari back to, Trivandrum.

- α Vivekananda Rock Memorial is a monument and it is a popular tourist attraction in Vavathurai, Kanyakumari, India. The memorial stands on one of two rocks located about 500 metres east off mainland of vavathurai, India's southernmost tip.
- α Padmanabhapuram Palace is located in at Padmanabhapuram Fort, close to the town of Thuckalay in Kanyakumari District, Tamilnadu, in India. It is about 20 Km from Nagercoil and about 50 Km from Thiruvananthapuram.
- α The Thiruvalluvar statue is a 133 feet tall stone sculpture of the tamil poet and the saint Thiruvalluvar, author of the Thirukkural.
- α The Thanumalayan Temple is also called Stanumalayan Temple in Tamil.

02 pax Indica	08 pax Innova
INR 5185/-	INR 7500/-



# Kerala Packages

## ALLEPPEY

In Kerala, the total expense of the backwater stretches over 1500Kms, with a network of 44 rivers,lagoons and lakes from north to south. Alleppey which forms the main part of this network has the peculiar geographical feature of having the water in level with the land.This gives the advantages of getting a closer look at the village life of shore while on a backwater ride.

### TRIVANDRUM-ALLEPPEY

#### OPTION 01 : DAY CRUISE

DAY CRUISE CHECK IN TIME : 1100AM CHECK OUT TIME : 05.00 PM

- Lunch with non-veg,evening tea with snacks.
- Transportation from Trivandrum-Alleppey-Trivandrum

02 pax Indica	08 pax Innova
INR 16000/-	INR 21635/-

#### OPTION 02 : NIGHT CRUISE

NIGHT CRUISE CHECK IN TIME : 12.30 HRS CHECK OUT TIME : 09.00 AM (NEXT DAY)

- Lunch with non-veg, evening tea with snacks, dinner & breakfast.
- Transportation from Trivandrum-Alleppey-Trivandrum.

02 pax Indica	08 pax Innova
INR 19650/-	INR 39500/-

## MUNNAR

- Munnar is a town in the southwestern state of Kerala,India.Munnar is situated around 1600m above sea level,in the Western Ghats range of mountains and the hill station.
- Munnar town is situated on the Kannan Devan Hills village in Devikulam taluk and is the largest panchayat in the Idukki district.

#### OPTION 01 :

TRIVANDRUM-MUNNAR-TRIVANDRUM (02 NIGHTS STAY)

- 02 night accommodation in 3 star hotel with breakfast,dinner

02 pax Indica	08 pax Innova
INR 20500/-	INR 22700/-

#### OPTION 02:

TRIVANDRUM-MUNNAR-COCHIN

- 02 night accommodation in 3star hotel with breakfast,dinner.
- 01 night accommodation in 3star hotel with breakfast.
- Pick from Trivandrum & drop at Cochin airport or Railway station.

02 pax Indica	08 pax Innova
INR 33000/-	INR 35000/-

## THEKKADY - 02 NIGHTS & 03 DAYS ITINERARY

### DAY 01 : COCHIN / TRV- THEKKADY

- Morning pickup from Cochin airport/Conference venue and transfer to Thekkady (around 5 hrs drive).
- Thekkady, one of India's major wildlife sanctuaries, sprawled over an area of 777sq.kms is rich in varied flora and fauna. It is one of the finest wildlife reserves in India and spread across the entire district are picturesque plantations of tea, cardamom, pepper, cloves and cinnamon in the High Ranges and hill towns that hold great opportunities for treks and mountain walks.
- On arrival, check into your hotel and relax. In the afternoon, proceed for a spice plantation tour.
- Overnight at Thekkady.

### DAY 02 : THEKKADY

- Morning: visit Periyar Wildlife Sanctuary. Enjoy boating to see the wildlife in close range. Elephants, wild bear, bison are the main attraction here. Optional activities – Jungle trekking, Jungle Jeep Safari, Bamboo Rafting etc.
- Overnight at Thekkady.

### DAY 03 : THEKKADY - COCHIN / TRV

- Morning: after breakfast, check out and transfer to Cochin airport/Conference venue.

### END OF THE TOUR

02 pax Indica	08 pax Innova
INR 13755/- Per Pax	INR 15000/- Per Pax

#### Tour price includes:-

- Entire ground transportation by AC car as per the itinerary
- 02 nights' accommodation at Wild Corridor Resort (Deluxe room)
- Daily breakfast
- Sightseeing as per the itinerary
- All applicable taxes and handling charges.

#### Tour price excludes:-

- All hotel extras
- All expenses of personal nature
- Boating tickets in Periyar
- All expenses other than those mentioned in inclusions list
- Any airfare/train fare

Note: Rooms not blocked and are subject to availability



## THEKKADY - 02 NIGHTS & 03 DAYS ITINERARY DAY 01 : COCHIN / TRV- THEKKADY

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- Overnight at Thekkady.

## DAY 03: THEKKADY - ALLEPPEY HOUSE BOAT

- Morning: after breakfast, Checkout from the Hotel, Visit House Boat Overnight at Alleppey

## DAY 04: ALLEPPEY- COCHIN / TRV

- Morning: after breakfast, check out and transfer to Cochin airport/ Conference venue.

### END OF THE TOUR

02 pax Indica	03 pax Innova
INR 20000/- Per Pax	INR 22000/- Per Pax

#### Tour price includes:-

- Entire ground transportation by AC Sedan car as per the itinerary
- 02 nights' accommodation at Wild Corridor Resort (Deluxe room)
- 1Night House Boat Stay
- Daily breakfast
- Sightseeing as per the itinerary
- All applicable taxes and handling charges.

#### Tour price excludes:-

- All hotel extras
- All expenses of personal nature
- Boating tickets in Periyar
- All expenses other than those mentioned in inclusions list
- Any airfare/train fare

Note: Rooms not blocked and are subject to availability

# Endorsements



 **KAN** Kerala Association of Neurologists

