



vol 20 no 01-03
January-March 2020

From the desk of ECC

My dear esteemed Members,

We are now in our 20th year having started right from January 2001 with release on the day of Vasant Panchami, the day Goddess of Learning (*Saraswati*) too is worshipped in parts of India. However, after 19 years at present mankind is engaged in coping up with the devastation throughout the world caused by the tiny virus known as Corona spreading Corona Virus Disease (COVID) - 19 (due to its starting in November-December 2019 time-frame). It is named so, because of typical shape as microbiologists have identified, with crown, though mankind cannot participate in its coronation.

In the mean-time new Executive Committee of IEEE Delhi Section for the year 2020 has assumed the office in the Section Annual General Meeting (AGM) held on February 22, 2020 (*Saturday*) at Netaji Subhas University of Technology (NSUT), New Delhi. The details of the Committee appear elsewhere in this issue of Section e-newsletter. It had its first Meeting too at NSUT on *Sunday*, March 01, 2020 with co-option of 4 Members and constituting various Standing Committees for the smooth functioning of Section (as shown at the Section site under concerned webpage <http://ewh.ieee.org/r10/delhi/exec.html>).

In this edition you would also find a message by our Section SIGHT (Special Interest Group on Human Technology) Chair Er. Ravindra Joshi on COVID-19, appeal to renew / join IEEE Group Medical Insurance 2020, as well as other regular features that may be of interest to keep you updated with the relevant information.

With best regards and wishes,

(Dr. Subrata Mukhopadhyay)
IEEE Delhi Section

March 27, 2020 (*Friday*)

E-mail: ieeedelhi@ieee.org

Web-site: www.ewh.ieee.org/r10/delhi

Schedule of Lecture(s)

Surf IEEE vTools Meeting System (<https://meetings.vtools.ieee.org/main>), then login with User Name and Password, and View Existing Meetings / View Published Meetings (https://meetings.vtools.ieee.org/meeting_view/list) for the Upcoming Meetings in respect of IEEE Delhi Section and its Society Chapters / Affinity Groups.

List of IEEE Conferences in the geographic area covered by the IEEE Delhi Section

(<http://ewh.ieee.org/r10/delhi/event.html>)

Already held in 2020

- 3rd International Conference on Emerging Technologies in Computer Engineering: Machine learning and Internet of Things (ICETCE-2020)

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/46199) held during February 7-8, 2020 (Friday-Saturday) by the Department of Computer Science & Engineering and Information Technology. Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Ramnagar, Jagatpura, Jaipur-302017, Rajasthan, India (having Conference website: <http://www.icetce.in/2020>)

- Indo – Taiwan 2nd International Conference on Computing, Analytics and Networks (Indo-Taiwan ICAN2020)

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/48429) jointly organized by Chitkara University, India & National Chung Cheng University, Taiwan during February 7-8, 2020 at National Chung Cheng University, Taiwan No. 168, Section 1, Daxue Road, Minxiong Township, Chiayi County, Taiwan 62102 & on February 14-15, 2020 at Chitkara University, Punjab, India Chandigarh-Patiala National Highway (NH-64), Rajpura, Punjab 140401, India (having Conference website: <https://www.chitkara.edu.in/cse-can>)

-1st International Conference on Emerging Trends in Communication, Control and Computing (ICONC3)

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- 9th IEEE Power India International Conference (PIICON2020)

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49524) held during February 28 - March 01, 2020 in the Department of Electrical Engineering, Deenbandhu Chhotu Ram University of Science & Technology (DCRUST), Murthal, National Capital Region, Haryana, India (having Conference website: <http://PIICON2019.in>)

-14th edition of INDIACom, i.e. INDIACom – 2020; 2020 07th International Conference on Computing for Sustainable Global Development

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49435) held during March 12-14, 2020 at BVICAM, Bharati Vidyapeeth, New Delhi, India (having Conference website: <http://www.bvicam.ac.in/indiacom/>)

Yet to be held in 2020 & beyond

- 2020 First IEEE international conference on Measurement, Instrumentation, Control and Automation (ICMICA 2020)

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/48462) during April 2 to 4, 2020 at National Institute of Technology Kurukshetra, Kurukshetra (having Conference website: <http://www.icmica2020.com/>)

Postponed due to threat of COVID-19 pandemic

- 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC-2020)

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/50313) during November 6-8, 2020 at Jaypee University of Information Technology, Waknaghat, near Solan, HP, India (having Conference website: <http://www.juit.ac.in/pdgc-2020/index1.php>)

- 2020 IEEE Seventeenth India International Conference (INDICON 2020)

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49873) during December 11-13, 2020 at Netaji Subhas University of Technology, Sector-3, Dwarka, New Delhi-110078, India (having Conference website: <http://www.indicon2020.in/>)

Under consideration

- 15th IEEE International Conference on Industrial & Information Systems (IEEE – ICIIS) - 2020 during November 26-28, 2020 at Indian Institute of Technology Ropar, Punjab – 140001, India (having Conference website: <http://www.iitpr.ac.in/iciis2020/>)

- 4th International Conference and Workshops on Recent Advances and Innovations in Engineering (ICRAIE 2020) during December 17-20, 2020 at Poornima College of Engineering, ISI 6, RIICO Institutional Area, Goner Road Sitapura, Jaipur, Rajasthan 302022, India and Indian Institute of Technology, NH 65, Surpura Bypass Road, Karwar, Jodhpur, Rajasthan 342037, India (having Conference website: <http://www.icraie.poornima.org/index.html>)

- International Conference on Intelligent Information Processing and Management-2021 (ICIIPM-2021) during August 06-08, 2021 at ECE Department, Maharaja Agrasen Institute of Technology (MAIT), affiliated to GGS Indraprastha University, New Delhi, India (having Conference website: <https://ece.mait.ac.in/index.php/international-conference-on-intelligent-informationprocessing-and-management-iciipm-2021>)

- Second International Conference on Secure Cyber Computing and Communications, 2020 during December 24-26, 2020 at Dr. B R Ambedkar National Institute of Technology Jalandhar, Punjab, India (having Conference website: <http://nitj.ac.in/icsccc2020>)

IEEE Group Medical Insurance 2020

Fri, Mar 27, 2020 at 5:54 PM

Dear Member,

Thank you for your continued patronage to the IEEE medical insurance program.

Most of the members have renewed their insurance policy. However, a few are yet to renew. The challenges the current pandemic Covid-19 is posing to all is understandable.

Extending the support for the cause, NICL has decided to extend the renewal till 30th March 2020.

Request all members to note that last date for renewing their medical insurance policy is 30.Mar.2020. Enrolments after 30-Mar-2020 shall be treated as "Fresh Enrollments" and continuation benefits would lapse.

Please use this [link](https://www.ieee.org/membership/discount/s/index.html#group-Insurance-plans%20) (<https://www.ieee.org/membership/discount/s/index.html#group-Insurance-plans%20>) for renewing your policy.

Stay isolated, Stay safe. Support Janatha Curfew.

Kindly ignore, if you have already renewed.

Regards,
Nagaratna
<nagaratna.pai@ieee.org>

2020 IEEE Delhi Section Executive Committee

Sl. No.	Name & Affiliation	Position
1.	Prof. Perna Gaur (NSUT)	CHP.
2.	Prof. Rachana Garg (DTU)	EXEC. V.C.
3.	Prof. Abdul Q. Ansari (JMI)	V.C.
4.	Mr. Ravindra Joshi (TPDDL)	SEC.
5.	Dr. Shabana Urooj (GBU, Greater Noida)	J.S. (to represent UP Segment)
6.	Dr. Sneha Kabra (DU)	TRS.
7.	Prof. K.	P.C.

	Subramanian (ex-NIC)	
8.	Prof. M. N. Hoda (BVICAM, New Delhi)	MEM.
9.	Mr. Ajay Goel (Altran, Gurugram)	MEM.
10.	Prof. Mahesh M Bunde (Poornima University, Jaipur)	MEM.
11.	Dr. Rajnish Sharma (Chitkara University, Rajpura)	MEM.
12.	Mr. Vijay K. Dutt (ex-Railways)	MEM.
13.	Dr. Shruti Jain (Jaypee University, Wagnaghat)	MEM. (to represent HP - J&K)
14.	Dr. Rashmi Agarwal (YMCA, Faridabad)	MEM. (to represent Haryana)
15.	Prof. Meenu Khurana (Chitkara University, Rajpura)	MEM. (to represent Punjab)
16.	Ms. Jyoti Jain (MSIT, New Delhi)	MEM. (to represent NCR of Delhi)

Notes: Highlighted Members are new entrants, with those (5) in yellow color are for the first time, while green ones (2) have served earlier too. In the absence of Dr. Shabana Urooj, J. S., Dr. Rajnish Sharma, MEM., will look after the post of J.S.

CHN.: EXEC. V.C.: V.C.: Vice
Chairperson Executive Chairperson
Vice
Chairperson

SEC.: J.S.: Joint TRS.:
Secretary Secretary Treasurer

P.C.: Past MEM.:
Chairperson Member

Message on COVID-19 pandemic

Dear IEEE Members,

We are facing unprecedented circumstances with the COVID-19 pandemic which has left virtually no nation and society untouched, including our country. Our hearts go out to those who have been affected by the outbreak of the novel coronavirus SARS-CoV-2. The global proportion of the crisis has left governments, institutions, businesses and markets scrambling to face this black swan event that demands isolation and shutdown while keeping essential services running. A pandemic of this expanse and potency has compelled large and small businesses to adapt, based on the requirements of social distancing. CORONA Virus has now reached India and the entire country is gearing up to stem to face this.

The country is taking huge steps to stem the spread of the virus including lockdown of cities, stopping train and transport services and work from home for all private companies excepting essential services. Recently, 22nd March was a special day when the whole country came to a standstill with the "Janata Curfew" and demonstrated the joint efforts of the citizens to overcome this challenge.

IEEE and its members inspire a global community to innovate for a better tomorrow, through highly cited publications, conferences, and technology standards, professional and educational activities. IEEE is the trusted "voice" for engineering, computing, and technology information around the globe.

As IEEE, we have to play our role to brave such pandemics alongside doctors, law enforcement and others and put our bit before self in the service of the nation and humanity as a whole. IEEE's commitment of, "Advancing Technology for Humanity" is reaffirmed in these challenging times. The Technology we encourage, powers the numerous hospitals and laboratories that are fighting day in and day out against the virus.

Along with the nation, we are also to be at the forefront of facing this unprecedented

challenge, and IEEE looks to each one of you for your support and cooperation in these critical times. I take this opportunity to request each one of you for enduring and standing up bravely in front of this epidemic by contributing your bit:

1. All our IEEE Members and specially student members to have only online meetings
2. At our homes, wherever we live, ensure all elders and children are exposed to the minimum possible extent
3. The information floated by media channels and the news is coming from multiple sources and may often be unverified. We should be prudent in passing on information that may create further unrest
4. Ensure personal preventive measures by following simple guidelines:
 - a. Wash your hands often with soap and water for at least 20 seconds. If soap and water are not available, use alcohol based hand sanitizer
 - b. Avoid touching your eyes, nose, and mouth with unwashed hands.
 - c. Cover your mouth when coughing
 - d. Clean and disinfect frequently touched objects and surfaces
 - e. Maintain a simple diet with plenty of water intake

For those who are part of essential services, please do take additional precautions to protect yourself through strict workplace hygiene, provision of hand sanitizers, masks, regular disinfection of premises, and cleaning of surfaces that are frequently touched like shared desks, countertops, electronics, doorknobs and chairs.

I wish you and your family to stay safe and healthy! We will together overcome this challenge!

Any suggestions by a member as to what IEEE can do is highly welcome. Please do forward the same to me or other senior members of Exec Com.

Once things are normal, we will put our heads together as learnings from this crisis and what preventive and corrective actions can be taken to avoid recurrence of such human existence crisis.

Thank you and kind regards,

Ravindra Joshi

Secretary, IEEE Delhi Section Exec Com, and Chair, IEEE Delhi Standing Committee / Special Interest Group on Humanitarian Technology (SIGHT)

Intimation about INDICON 2020 being conducted by IEEE Delhi Section

Dear all,

Flagship event of IEEE India Council, INDICON2020 (<http://www.indicon2020.in/>), would be organized in NSUT, New Delhi from 11th to 13th December, 2020 with IEEE Delhi Section Chair Prof. Purna Gaur as the General Chair.

You may find First Call for Papers by surfing http://www.indicon2020.in/author_section/call_for_papers.html.

You are requested to pass on this information to the concerned Faculty members / Research scholars in your respective institutions.

You are further encouraged to spread message about Facebook Group of IEEE Delhi Section (<https://www.facebook.com/groups/708667102955830/>) where many of the useful updates are made available at regular intervals.

You may write me back as well in case you do have any queries.

Stay safe from COVID-19 and participate in INDICON2020.

Best regards!

Rajnish Sharma

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**Rajnish Sharma, PhD, SMIEEE
Chair, Publicity and Public Relations
Committee, INDICON2020
Dean (Research), Chitkara University
Research and Innovation Network
(CURIN)
Chitkara University, India
Cell :+91.88375.78049
<https://www.linkedin.com/in/rajnish-sharma-39948719>**

Two important Memoranda that IEEE Delhi Section had to issue in recent time on Conferences under its Sponsorship

**IEEE Delhi Section MEMORANDUM
on Insertion of
Notification in Conference Website
regarding Possible Inclusion of
Papers in the IEEE XPLORE Digital
Library and Technical Cosponsor
Fee**

No. IEEE/Delhi-2020/013
February 02, 2020 (Sunday)

Dear Contacts of Conferences sponsored (technically or financially) by the IEEE Delhi Section,

Your attention is drawn for including the following text right in the homepage of your forthcoming Conference website IMMEDIATELY WITHOUT FAIL.

Papers submitted for the Conference upon peer review when accepted need to be presented for further submission for consideration to include in the IEEE Xplore Digital Library, subject to final decision based on quality of the peer review and technical program development for the Conference by the Technical Program Integrity Committee (TPIC) of IEEE.

This has arisen due to some unpalatable incident recently, *although not new as faced such situation earlier too*, due to terming IEEE Conference as

a fake one while making allegations to IEEE Conference Operation through texts, such as,

but what about money we have paid on the name of IEEE and just waiting that our paper will be published what is in our hand after two years

its totally responsibility and someone has to take responsibility they should reject the paper in terms of quality lagging but the accept to gain money

There is no wonder why such thing is cropping up, as evident referring to <http://www.icmica2020.com/> when the following is noticed:

All accepted and presented papers will be published on IEEE Explore (Record no 48462)

It is highly dangerous to have such statement included in the Conference website, *be it casual or intentional to attract submission of papers.* However, **it is in totally unacceptable.** In the IEEE Delhi Section prescribed form there is a clear-cut mention about this under **Important Notes**. Of course, everyone is not like that. That's why on the contrary referring to <http://www.juit.ac.in/pdgc-2020/index1.php> for **Conference Record # 50313** following may be observed:

Conference proceedings of accepted papers (for oral presentations) will be submitted for the possible inclusion into IEEE Xplore.

It maintains the spirit; hence it is **acceptable**.

In this context it is also worthwhile to mention that for the Technically Sponsored or Co-Sponsored (along with any other *not-for-profit* body, be it IEEE Organizational Unit or non-IEEE Organizational Unit) since January 01, 2018, IEEE MGA (Member and Geographic Activities) TCS (Technical Co-Sponsorship) Fee of

US\$1,000 *plus* @US\$15 per paper considered to be screened for uploading to IEEE Xplore is required to be levied. So is the IEEE Delhi Section TCS Fee of US\$400 in terms of equivalent Indian Rupees (INR). Decision of Section in this regard is to charge the concerned Conference. After the Conference when Proceedings of it are submitted, expected to be only after the submission of response to TPO (Technical Program Questionnaire) in respect of the Conference, IEEE raises the Invoice and so the IEEE Delhi Section Demand Note. However, it is to assess the amount of Invoice for *processing and in no way, it guarantees publication of Conference Papers in the IEEE Xplore, as the same have to pass the screening for quality by the TPIC (Technical Program Integrity Committee).* That way IEEE cannot be compared with the Commercial Publishing Houses who charge for publishing papers. Of course, it is also a fact that certain Societies of IEEE, e.g. Computer Society, too charge to be Technical Sponsor / Co-Sponsor even at the time of application for such sponsorship itself, which cannot be ignored.

In this context it is mentioned that if the Organizers of Conference do not pay against the Invoice, it is chargeable to the Technical Sponsor, IEEE Delhi Section. *It is being experienced with only one such Conference that was held way back in October 2018 with IEEE Conf # 44769. Due to this Section will not only make a loss of its revenue of its TCS Fee of US\$400, but also the amount payable to IEEE MGA as TCS Fee by the Conference, by way of deduction of the amount from its Annual Rebate from the IEEE.* In order to avoid recurrence of such unfortunate happenings **it has been decided to take punitive action ranging from banning of the Organizers of concerned Conference along with the Institute / University from further holding of IEEE Conference in future and intimidating other Sections in India**

to be cautious in dealing with such individuals and Institute / University, who may have campus in their jurisdiction. Actually, anticipating such situation, already some of the Sections in India as caution money, total estimated amount is charging with GST before signing the MOU for sponsorship, leaving only minor adjustment after the Conference is over. **So, if necessary, IEEE Delhi Section too may start resorting to such practice.**

Thanks & warm regards / best wishes.

Subrata

Prof. (Dr.) Subrata Mukhopadhyay,
SrPE, valued IEEE Member for 51
years
Adjunct Professor, NSUT
Chair, Tech & Prof Act STDCOM,
IEEE Delhi Section

IEEE Delhi Section MEMORANDUM on Banning of Amity University Haryana, India due to Non-Payment of IEEE MGA TCS (Technical Cosponsor) Fee and IEEE Delhi Section Fee for the 3rd International Conference on Contemporary Computing and Informatics (IC³I 2018) (IEEE Conference # 44769) held during 10-12 October 2018 at its Manesar, Panchgaon, Haryana 122413 Campus

No. IEEE/Delhi-2020/026
March 11, 2020 (Wednesday)

Based upon various communications resting with the trailing mail of IEEE Delhi Section dated Saturday, February 22, 2020, the instant Memorandum is issued in terms of the following for strict compliance.

1. Amity University Haryana located at its Manesar, Panchgaon, Haryana 122413 Campus is banned for a period of 10 years, i.e., October 11, 2028, reckoning from the last date of 3rd International Conference on Contemporary Computing and Informatics (IC³I 2018) (IEEE Conference # 44769) held during 10-12 October 2018 for Non-Payment of IEEE MGA TCS (Technical Cosponsor) Fee and IEEE Delhi Section Fee. Accordingly, it is

being informed to the Organizers of Conference as well as the concerned authority with copy endorsed to IEEE Staff involved, Members of IEEE Delhi Section Standing Committee on Technical & Professional Activities (Conferences), and IEEE Delhi Section Leadership.

2. At the same time it is being communicated also to other 10 IEEE Sections in India alerting them to be cautious while dealing with the Amity University which has Campuses in other States of India as well. Also would be intimated all the Organizers of Conferences (in the recent past and at present) included in the concerned list maintained by the IEEE Delhi Section.

3. Due to apprehension of such thing to happen, it is understood that already few Sections in India have resorted to take advance for the above-mentioned Fees (IEEE MGA TCS Fee & Section Fee, *if any*); and so are IEEE Societies, like, Computer Society, Signal Processing Society, etc. at the time of application itself, i.e., before processing it. In view of all these, henceforth IEEE Delhi Section (without / or with its Subsections, Chapters, Affinity Groups), if approving to be Technical Sponsor / Co-Sponsors (but NOT Financial Sponsor / Co-Sponsors, as those Fees are NOT to be paid in such cases), Memorandum of Understanding (MOU) for holding the Conference would be signed only upon receipt of the following:

- Based on prevailing currency conversion rate (as *refundable* caution money without any interest) payment of IEEE MGA TCS Fee as in vogue, which is currently US\$1,000 *plus* US\$15 paper estimated to go to IEEE Xplore (subject to adjustment finally when papers are actually sent with Invoice raised by the IEEE), to IEEE Delhi Section. *It would be released only when IEEE confirms receipt of the concerned payment.*

- Based on prevailing currency conversion rate (as *non-refundable*) payment of IEEE Delhi Section Fee as in vogue, which is currently US\$400 *along with* applicable Taxes, such as GST, to IEEE Delhi Section, as raised through Demand Note.

This will be applicable to all new Conferences (and / or with new Conference Organizers / Host-

Organization(s), for which MOU would be signed henceforth. However, it would NOT be applicable to the existing serial Conferences (and / or even with new Conference Organizers / Host-Organization(s), after due verification) that have proven track record of paying IEEE MGA TCS Fee and IEEE Delhi Section Fee in time.

Thanks and warm regards / best wishes.

Subrata

Prof. (Dr.) Subrata Mukhopadhyay,
SrPE, valued IEEE Member for 51
years

Adjunct Professor, NSUT
Chair, Tech & Prof Act STDCOM,
IEEE Delhi Section

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE

IEEE Delhi Section has as per **latest (March 16, 2020)** statistics **2791 active Member (including 14 Society Affiliates)**, consisting of **0 Honorary Member, 7 Life Fellow, 6 Fellow, 31 Life Senior, 337 Senior Member, 5 Life Member, 778 Member, 4 Associate Member, 579 Graduate Student Member, 1029 Student Member, 1 SA.**



vol 20 no 04-10
April-October 2020

From the desk of ECC

My dear esteemed Members,

After a pretty long time the second edition of IEEE Delhi Section e-newsletter for the year 2020 is being issued, while COVID-19 Pandemic is still on. No doubt after leaving the fear, inertia, etc. whatever you may say, we are coming back to mainstream of activities in alternate mode and / or with enabled safety and security following the new normal life. In the process we have come to know and effectively utilize new means of conducting technical activities, such as,

webinars in lieu of hitherto physical lectures, conferences in virtual mode without having limit in participation from anywhere in the world and that too with an overall much reduced cost. Pre-recorded online sessions too are being held not once, but repeatedly with availability on demand, and again some are in hybrid mode, such as with simultaneous live occurrence. It is now indeed sky is the limit.

Anyway let me draw a line here with the information that in the rest of the e-newsletter you will find up-to-date details of Conferences under the Section, Minutes of Annual General Meetings (as made available), certain reminiscences, call for expression of interest to serve Section Executive Committee and that of other IEEE Organizational Units, and other usual features, such as, membership strength, etc.

With best regards and wishes,

A handwritten signature in blue ink, appearing to be "Subrata Mukhopadhyay".

(Dr. Subrata Mukhopadhyay)

IEEE Delhi Section

October 27, 2020 (Tuesday)

E-mail: ieeedelhi@ieee.org

Web-site: www.ewh.ieee.org/r10/delhi

Schedule of Lecture(s)

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(https://conferences.ieee.org/conferences_e)

[vents/conferences/conferencedetails/46199](https://conferences.ieee.org/conferences_vents/conferences/conferencedetails/46199)) held during February 7-8, 2020 (Friday-Saturday) by the Department of Computer Science & Engineering and Information Technology. Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Ramnagar, Jagatpura, Jaipur-302017, Rajasthan, India (having Conference website: <http://www.icetce.in/2020>)

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<https://www.chitkara.edu.in/cse-can>)

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<http://www.juit.ac.in/pdgc-2020/index1.php>)

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(https://conferences.ieee.org/conferences_vents/conferences/conferencedetails/51140) during November 26-28, 2020 in virtual mode at Indian Institute of Technology Ropar, Punjab – 140001, India (having Conference website: <http://www.iitrpr.ac.in/iciis2020/>)

- 4th International Conference and Workshops on Recent Advances and Innovations in Engineering (ICRAIE 2020)

(https://conferences.ieee.org/conferences_vents/conferences/conferencedetails/51050) during December 1-3, 2020 at Poornima College of Engineering, ISI 6, RIICO Institutional Area, Goner Road Sitapura, Jaipur, Rajasthan 302022, India and Indian Institute of Technology, NH 65, Surpura Bypass Road, Karwar, Jodhpur, Rajasthan 342037, India (having Conference website: <http://www.icraie.poornima.org/index.html>)

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(https://conferences.ieee.org/conferences_vents/conferences/conferencedetails/49873) during December 11-13, 2020 in virtual mode at Netaji Subhas University of Technology, Sector-3, Dwarka, New Delhi-110078, India (having Conference website:

<http://www.indicon2020.in/>)

- 15th Edition of INDIACom
https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51348
during March 17-19, 2021 at BVICAM, Bharati Vidyapeeth, New Delhi, India
(having Conference website:
<http://bvicam.ac.in/indiacom/>)
- Second International Conference on Secure Cyber Computing and Communications (ICSCCC), 2021
https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51823
during May 21-23, 2021 at Dr. B R Ambedkar National Institute of Technology Jalandhar, Punjab, India (having Conference website:
<https://www.nitj.ac.in/icsccc2021/>)

Announcement of *three* Jury members for IEEE Delhi Section Industry Awards

1. Prof Yogesh Singh (Vice Chancellor, DTU) ys66@rediffmail.com -From Computers
2. Prof J P Saini (Vice Chancellor, NSUT) jps@nsut.ac.in, vco@nsut.ac.in, vc@nsut.ac.in - From Electronics
3. Er S K Soonee (Advisor POSOCO) sksoonee@gmail.com - From Electricals

Combined notice seeking nomination for volunteering to serve IEEE Delhi Section Executive Committee, IEEE PES-IAS Delhi Chapter Executive Committee, IEEE PELS-IES Delhi Chapter Executive Committee (all for 2021), and PES Chapter Outstanding Engineer Awards in the categories of more experienced members (>15 years) and less experienced (<15 years) members (for 2020 and restricted to PES Member only)

No. IEEE/Delhi-2020/79
October 04, 2020 (Sunday)

Dear IEEE Delhi Section Members as in October 2020 (drawing attention to Higher Grade Members*),

* Graduate Student Members, Members, Life Members, Senior Members, Life Seniors, Fellows, Life Fellows (*but excluding Student Members, Associate Members, Affiliates to*

Societies)

For and on behalf of IEEE Delhi Section Standing Committee on 'Nomination', comprising of Prof. K. Subramanian, SMIEEE (Ex-NIC) as Chair, and Prof. Bhim Singh, FIEEE (Dean-Academics, IIT Delhi), Prof. Ranjan K. Mallik, FIEEE (EE Dept., IIT Delhi), Prof. Subrata Mukhopadhyay, LSIEEE (NSUT New Delhi), Dr. Harbans L Bajaj, LFIEEE (Ex-CEA), Prof. Sukumar Mishra, SMIEEE (EE Dept., IIT Delhi), & Prof. Alok P. Mittal, SMIEEE (NSUT New Delhi) as Members, this notice is being issued drawing attention of all Higher Grade Members of IEEE Delhi Section seeking nomination for volunteering to serve 16-Member (core) IEEE Delhi Section Executive Committee for the 14 following posts in 2021.

1. 5 (five) positions of Section Officers other than Chairperson, i.e., Executive Vice Chairperson, Vice Chairperson, Secretary, Joint Secretary, Treasurer, and 9 (nine) Members as per IEEE - DELHI SECTION BYLAWS (<http://ewh.ieee.org/r10/delhi/bylaw.html>) with reservations for the post for (Immediate) Past Chairperson and Chairperson due to the clause that reads as '*One of the Vice Chairpersons shall be designated as Executive Vice Chairperson, who shall take over from the Chairperson for the next term.*'

-With self-nomination permitted, interested IEEE Member should submit in about a page his / her contribution to the profession and to the IEEE and its Society(ies) in the last *five years*, in support of his / her candidature by 04-November-2020 (Wednesday) to IEEE Delhi Section <ieeedelhi@ieee.org> only clearly mentioning about the post(s) in order of preference.

- Even for the existing Executive Committee Members *except for the reserved positions of (Immediate) Past Chairperson, and Chairperson* which current Executive Vice Chairperson is slated to occupy, i.e., in other words for the remaining 5 (five) positions of Section Officers (Executive Vice Chairperson, Vice Chairperson, Secretary, Joint Secretary, & Treasurer), and 9 (nine) Members submission of expression of

interest supported by similar document as above is expected *for continuance in the same position or advancement (as applicable)*.

-It is clarified that no extension of date will be there on any sort of excuse and there is no bar for the remaining existing Executive Members (like, Ex-officio & Co-opted Members) to apply in similar way as above until and unless restricted as per Section Bylaws and / or in accordance with the IEEE Constitution and Bylaws. However, in the process prevalent practice of 'one person one post' should be maintained', e.g., holding the position of Chair of Subsection / Chapter / Affinity Group thus remaining as *Ex-officio Member in the Section Executive Committee*, one should not be vying normally for any position out of the above-mentioned 5 remaining Section Officers or 9 Members. However, if any such volunteer wishes to apply to serve in any of these posts in the Section Executive Committee, an undertaking should be submitted by him / her for subsequent relinquishing of charge from the position of Chair of Subsection / Chapter / Affinity Group in case of selection.

-While making the slate due consideration would be given to technical as well as geographical segments of the Section.

-Also, the Nomination Standing Committee has the right to pick up any Member, who may not have applied, but considered to be fit for a particular position after obtaining his / her consent.

2. Nomination is also invited for the **IEEE PES-IAS Delhi Chapter Executive Committee, IEEE PELS-IES Delhi Chapter Executive Committee** (all for 2021), from the Members of respective Societies *in similar lines* as above for the posts of Chairperson, Secretary, Treasurer, and Members (going by precedence and / or bylaws with number as mentioned in their respective websites). Deadline for the concerned submissions is **04-November-2020 (Wednesday)** to **IEEE PES-IAS**

Delhi

<pesdelhi@ieee.org> only.

Chapter

3. For the nomination of **PES Outstanding Chapter Engineer Awards (OCEA)** in the categories of more experienced members (>15 years) and less experienced (<15 years) members for **2020, restricted to Power & Energy Society (PES) Higher Grade Members only**, concerned Nomination Committee seeks application with contribution to profession as well as to PES, and IEEE or its other Societies (*if any*) in about a page to be submitted by **04-November-2020 (Wednesday)** to **IEEE PES-IAS Delhi Chapter** <pesdelhi@ieee.org> only.

Thanks & warm regards / best wishes to all.

Subrata

Prof. (Dr.) Subrata Mukhopadhyay,
valued IEEE Member for 51 years
Electronic Communications
Coordinator of IEEE Delhi Section

Minutes of AGM of IEEE Delhi Section held on February 22, 2020 (Saturday)

Date (Day) and Time: 22nd Feb, 2020 (Saturday) from 10.30 AM to 2.00 PM
Venue: Main Auditorium, Netaji Subhas University of Technology, Sector-3, Dwarka, New Delhi-110078

1. **Welcome by the Section Chair Prof. Prerna Gaur:** Prof. Prerna Gaur, Chair-IEEE Delhi Section welcomed the members and the guests present and declared the meeting open. She informed the achievements of the Section to the members like sponsoring conferences, outreach meetings, DL lectures at various institutes, etc. She also informed the members about the major technical, administrative and professional activities including many IEEE conferences. The increase in chapters, award nominations from the Section, etc. were highlighted.
2. **Confirmation of minutes of previous AGM:** The Minutes of the last AGM held on March 31, 2019 were presented and approved.
3. **Presentation of Secretary's Report:** Dr. Manoj Saxena, Secretary of the Section read the Secretary's report, which was

- approved by AGM. The report is attached as Annexure-I.
4. **Report by the Treasurer:** The Treasurer of the Section, Dr. Jasdeep Dhanoa, presented the financial report for the year 2019. The financial report was approved by the AGM. The report is attached as Annexure-II
 5. In appreciation to the services rendered, the exec com members of 2019 were felicitated.
 6. **Declaration of 2020 Delhi Section Executive Committee and Introduction of Members:** Prof. Subrata Mukhopadhyay, Member, Nomination Standing Committee announced the slate for Section Executive Committee for the year 2020 as follows:

S. No.	Name & Affiliation	Position
1.	Prof. Perna Gaur (NSUT)	Chairperson
2.	Prof. Rachana Garg (DTU)	Exec Vice Chairman
3.	Prof. Abdul Q. Ansari (JMI)	Vice Chairperson
4.	Mr. Ravindra Joshi, (TPDDL)	Secretary
5.	Dr. Shabana Urooj (GBU, Gr. Noida)	Joint Secretary
6.	Dr. Sneha Kabra (DU)	Treasurer
7.	Prof. K. Subramanian (ex-NIC)	Past Chairman
8.	Prof. M. N. Hoda (BVICAM)	Member
9.	Mr. Ajay Goel (Aricent)	Member
10.	Prof. Mahesh M. Bunde (Poornima University, Jaipur)	Member
11.	Dr. Rajnish Sharma (Chitkara University, Chandigarh)	Member
12.	Mr. Vijay K. Dutt (ex-Railways)	Member
13.	Dr. Shruti Jain (Jaypee Univ., Wagnaghat)	Member

14.	Dr. Rashmi Agarwal (JC Bose Univ. of Sc. & Tech)	Member
15.	Prof. Meenu Khurana (Chitkara University, Chandigarh)	Member
16.	Dr. Jyoti Jain (MSIT)	Member

The new exec com assumed the office. The continuing Chairperson, Prof. Perna Gaur thanked the earlier exec com and welcomed all the new as well as continuing members.

7. **Appointment of Auditor for 2019:** Mr. Vijay K. Gupta was appreciated for his performance as internal auditor in 2019 and was appointed as the internal auditor for the IEEE Delhi Section for 2020 also.
8. The Vice Chair, Prof. A. Q. Ansari, proposed a 'vote of thanks' and the meeting ended with thanks to the Chair.
9. It was followed by Special lecture by Mr. Subinder, Founder, NASSCOM DeepTech Club.
10. Thereafter, various Chapters and Affinity Groups held their AGMs before Lunch.
11. **Appointment of Nomination Committee for 2020:** The nomination committee for the year 2020-21 is as follows:
 - a. Prof. K. Subramanian (ex-NIC) Chair
 - b. Prof. Bhim Singh (IIT-Delhi) Member
 - c. Prof. Ranjan K. Malik, (IIT-Delhi) Member
 - d. Prof. Subrata Mukhopadhyay (NSUT) Member
 - e. Mr. H.L. Bajaj Member
 - f. Dr A. P Mittal (NSUT) Member
 - g. Dr Sukumar Misra (IIT-Delhi) Member

Thank you and Kind Regards,
Ravindra Joshi, SMIEEE
Secretary, IEEE Delhi Section
26 September 2020

Annexure-I

IEEE DELHI SECTION-SECRETARY REPORT 2019

Delhi Section is under large section category and is among the fastest growing sections in IEEE. IEEE Delhi Section has as per latest

statistics **(Dec-19)** 4781 active Members (including 21 Society Affiliates), consisting of 0 Honorary Member, 7 Life Fellow, 7 Fellow, 33 Life Senior, 357 Senior Member, 7 Life Member, 1335 Member, 48 Associate Member, 793 Graduate Student Member, 2172 Student Member, 1 SA.

Grades	Dec-11	Dec-12	Dec-13	Dec-14	Dec-15	Dec-16	Dec-17	Dec-18
Affiliate	26	37	24	23	24	21	25	21
Associate members	61	77	61	70	73	37	52	49
Fellow	7	7	7	7	5	7	8	8
GSM	351	470	499	646	621	696	689	616
Honorary Member	3	3	2	2	2	0	0	0
Life Fellow	3	4	5	6	6	7	6	5
Life Member	5	5	6	5	5	5	5	7
Life Senior	15	17	21	21	21	33	35	33
Member	1109	1168	1134	1177	1205	1245	1367	1413
Senior Member	175	169	192	193	205	253	277	320
Student Member	2894	3200	3222	2991	3220	2529	2125	1972
Total	4649	5128	5173	5141	5388	4833	4589	4444

We have 2 subsections, 18 technical society/council chapters and 4 Affinity groups. There are 88 student branches and branch chapters in Delhi Section. In 2019, three new chapters have been formed and two student branches have been formed i.e. at IEEE NIT Delhi and IEEE IIIT Delhi respectively. IEEE's core purpose is to foster technological innovation and excellence for the benefit of humanity, hence, Section is committed towards education, professional development and societal development. During Jan. 01, 2019 to Dec. 31, 2019, 177 activities were reported on v.tools by the Section, Society Chapters and Affinity groups and 329 Administrative, Technical and Professional activities were reported by Student Branches and Chapters.

		Administrative	Humanitarian	Non-Technical	Professional	Technical	Total
CH10078	Delhi Section Chapter, C16	1	--	1	--	3	5
CH10219	Delhi Section Jt. Chapter, PE31/A34	3	--	--	1	13	17
CH10220	Delhi Section Chapter, COM19	1	--	--	--	3	4
CH10333	Delhi Section Chapter, IM09/EMB18	7	1	2	11	8	29
CH10389	Delhi Section Chapter, PEL35/IE13	--	--	--	--	12	12
CH10398	Delhi Section Chapter, ED15	4	--	--	--	13	17
CH10462	Delhi Section Chapter, CIS11	--	--	--	--	1	1
CH10608	Delhi Section Chapter, GRS29	1	--	--	--	1	2
CH10614	Delhi Section Chapter, E25	--	--	1	2	3	6
CH10702	Delhi Section Chapter, TEM14	6	--	--	1	3	10
CH10719	Delhi Section Chapter, SP01	--	--	--	--	2	2
CH10869	Delhi Section Jt. Chapter, RFD741/AP03	1	--	--	--	2	3
CH10878	Delhi Section Chapter, APO3-Jaipur	--	--	--	1	1	2
CN00123	Delhi Section Affinity Group, CN	1	--	--	1	2	4
LM00123	Delhi Section Affinity Group, LM	4	--	--	2	9	15
RO0123	Delhi Section	6	--	--	--	5	11
RO012301	Chandigarh Subsection	--	--	--	3	11	14
RO012302	Rajasthan Subsection	3	--	--	3	7	13
YP00123	Delhi Section Affinity Group, YP	--	--	--	--	4	4
WE00123	Delhi Section Affinity Group, WIE	2	1	--	2	1	6
	Total	40	2	4	27	104	177

These activities include Technical lectures by several society Chapters, distinguished lectures, the events especially designed for Graduate Student Members, Women Engineers, Young Professionals and Conferences.

Under Professional and Continuing Education Activities, 09 IEEE Conferences were approved and were held during 2019

- International Conference on "Machine Learning, Big Data, Cloud and Parallel Computing" during Feb 14-16, 2019 organized by Deptt. CSE, Faculty of Engg. & Tech., Manav Rachna International Institute of Research & Studies (MRIIRS)
- 9th Annual Information Technology, Electromechanical Engineering and Microelectronics Conference (IEMECON) held during March 13 to 15, 2019 in the University of Engineering & Management, Jaipur, India
- 13th edition of INDIACOM i.e. INDIACOM – 2019; 2019 06th International Conference on "Computing for Sustainable Global Development" held during March 13-15, 2019
- 1st International Conference on Signal Processing, VLSI and Communication Engg. (ICSPVCE-2019) held during March 28-30, 2019, DTU
- 2nd International Conference on Intelligent Communication and Computational Techniques (ICCT'19) held during September 28-29, 2019 at School of Computing and Information Technology, Manipal University, Jaipur
- 5th International Conference on Signal Processing, Computing and Control (ISPPCC 2k19) held during October 10-12, 2019 at Jaypee University of Information Technology (JUIT), Wagnaghat, Solan, HP
- Fifth International Conference on Image Information Processing (ICIIP - 2019) held on Nov. 15-17, 2019 at JUIT.
- International Conference on Power Electronics, Control & Automation (ICPECA-2019) held during Nov. 16-17, 2019 at Department of Electrical Engineering, Jamia Millia Islamia, New Delhi

- 8th International Conference on Power Systems (ICPS 2019) held during Dec. 20-22, 2019 at MNIT, Jaipur, Rajasthan

Section level student activities: IEEE Delhi Section Student Congress (DSC) 2019 was IEEE Delhi section's one of the biggest assembly of engineers attracting hundreds of delegates from more than 40 Student Branches. DSC 2019 was held at IIIT Delhi during Oct 12-13, 2019. This year DSC's theme was "INSPIRING INCLUSIVE INNOVATION" Living up to the theme, the first day observed inspiring talks by experts, while the second day was marked by plenary talks by delivered by several decorated panels that discussed brilliant innovative ideas. The event also observed some intriguing project presentations by participating IEEE student branches. The Rajasthan Subsection Congress (RSC) 2020 was held on Jan. 12, 2020. Nearly 150 delegates from nearly 20 colleges including Manipal University Jaipur, Government Engineering College (GEC) Ajmer, Mody University, Chandigarh University, BKBIET Pilani, IIT Jodhpur, Poornima University, The NorthCap University, Manav Rachna University got themselves registered and got their delegate kits and IDs. Over 23 Student branches and chapters celebrated IEEE Day during Sept. 30, 2019 to Oct. 19, 2019 by organizing in all 32 different activities like lectures, workshops, Energy Workshop for School Kids, Student Solar Ambassadors (SSA) Workshop, student competitions etc.

Women in Engineering (WIE) : Under the banner of WIE, a Sub Section level (Chandigarh) hackathon was conducted by IEEE Delhi for the first time in Chitkara University, Chandigarh in the month of March 2019 with saw participation from all over Chandigarh. WIEMPOWER, a WIE event which had workshops and competitions like IDEATHON were conducted at IGDTUW. Moreover, a technical paper publishing conference was conducted by IEEE Delhi Section Student Network in association with HMRITM. The conference had the keynote session by Dr. Gulshan Rai, former Chief Cyber Security Office, PMO, Government of India. IEEE R10 Young Professionals South Asia Coordinator, gave a presentation about his experience with IEEE. On Aug. 28, 2019 an invited Lecture on "World Environment Day" was organized by Delhi Section Affinity

Group, WIE and Workshop on "Python and Machine Learning was organized on Sept. 14, 2019 and WIE Tracks were organized in DSC 2019 and in RSC 2020.

Life Member (LM) Affinity Group: 6th R.K Vir Memorial Lecture 'Sustainable Transport in India' was held on Jan. 04, 2019 at Institution of Engineers (India) Delhi. The Program was inaugurated & addressed by Hon. Mr. Piyush Goel - Union Minister of Railway & Commerce who talked about Government Initiative to make Indian Railway world Class. On Feb. 19, 2019, an International Colloquium on Ethics & Governance of Autonomous AI Systems for better World was held at India International Centre (IIC), New Delhi. Key Note Address was given by Mr. Prashant Chugh & Guest of Honor was Dr. Surendra Pal, FIEEE who was working in ISRO and was also Chairman of IEEE Bangalore Section. World Environment Day 2019 was jointly organized by IEEE, IET and IE (I) at IIC on June 28, 2019. Mr. Arvind Nautiyal Joint Secretary Min. of Environment Govt. of India was the Guest Speaker. Apart from that several other talks and lectures were organized throughout the year.

Consulting Networks Affinity Group : The Group like previous years joined hands with the Section Standing Committees on Inter-Society Relations, Industry Relations, and Delhi Units of Professional Bodies, such as, IETE, CSI, IET to organize at different locations in New Delhi several Technical Talks that are contemporary nature covering areas of Natural Language Processing, Cloud Computing, IOT & its Use Cases for Wearable Computing, Smart Cities/Home and Connected Car for the benefit of not only IEEE Members, but also fraternities of Engineering, Computer Scientists from academia as well as industries. At the same time Administrative Meeting too was held side-by-side to run the Affinity Group, besides continuing to provide consultancy assistance in various fields coming under IEEE based on research and field experience.

Awards: IEEE Delhi Section Award Ceremony 2019 was held at Manav Rachna University, Faridabad on June 03, 2019. The event was conducted to honour and recognize the services of student volunteers and faculty advisors alike. Several IEEE Delhi Section Volunteers received Awards and Recognitions from R10

and IEEE HQ during the year 2019:

- R10 Student Activities Committee Outstanding Student Branch Award– Third Place - Dr. Akhilesh Das Gupta Institute Of Technology And Management, Delhi Section in recognition and appreciation of value services and contributions.
- 2019 R10 Section Incentives (activities from Nov 2018 - Oct 2019) – Delhi Section received USD2000.
- PES Outstanding Chapter Engineer award 2019 by Dr. S.R Narasimhan
- PES Outstanding Chapter Engineer award 2019 by Dr. Ahteshamulhaque
- Prof Rintu Khanna received 2019 IEEE Outstanding Branch Counselor and Advisor Award.
- Mr. Rajendra K Asthana received Life Time achievement Award 2019, category-(India Council Chair)
- Prof Prerna Gaur received 2019 India Council Outstanding Volunteer award
- Mr. Jatin Batra received Outstanding Student Volunteer award
- 2019 IEEE India Council Outstanding Volunteer Award (age greater than 35) was given to Prof. Prerna Gaur (NSUT), IEEE Delhi Section Chair
- Er. Rajendra K Asthana (formerly of BHEL) was given IEEE India Council Chair Lifetime Achievement Award 2019
- Prof. K. Subramanian (formerly of NIC) has been appointed as IEEE Ambassador as well as India Area coordinator for IEEE Computer Society
- Mr. Daman Dev Sood (Continuity and Resilience) has been appointed as R10 – India- Students Activities Chair of the IEEE Computer Society
- Prof. Subrata Mukhopadhyay (NSUT) has been inducted as Member of IEEE PES Nomination & Appointment Committee for the two-year term (2020-21) to represent Asia-Pacific Region.

SIGHT Activities: Blood Donation Camp was organized on Sept. 09, 2019 at Bharati Vidyapeeth Educational Campus, New Delhi. Preventive Basic Health Checkup camp for the underprivileged people of Madipur JJ Cluster was organized on Sept. 05, 2019 at Madipur, Delhi in association with Bharati Vidyapeeth, New Delhi.

Special Events: A Blood Donation Camp was organized on Sept. 09, 2019 at Bharati

Vidyapeeth Educational Campus, New Delhi and Preventive Basic Health Checkup camp for the underprivileged people of Madipur JJ Cluster was organized on Sept. 05, 2019 at Madipur, Delhi in association with Bharati Vidyapeeth, New Delhi.

Joint Activities with other Professional Societies: One day workshop at NSUT was organized alongwith IETE in which expert talks were delivered by experts from Industry and Academia, WIE collaborated with IEEE, IEI, IET and IREE for technical lecture on Jan 04, 2019. TEMS Delhi chapter celebrated World Environment Day on June 28, 2019 at IIC in collaboration with IET, DLN and the theme was on Air Pollution followed by networking dinner. TEMS IEEE Delhi Section organized a seminar on "Emerging Technologies in Telecommunication – 5G and beyond" on Sept. 23, 2019 at Engineers Bhawan, Institutions of Engineers, New Delhi in collaboration with IET DLN and IEI. IEEE PELS-IES Delhi Chapter and TEMS organized a Seminar on "Upcoming Renewable Technologies" in EE Department of IIT Delhi on Oct. 21, 2019 alongwith the Institute of Engineers.

Support extended to neighbouring Sections: The section provided financial assistance (Rs. 20,000) to Bangalore Section in organising and towards attending WIE ILS (April 2019) by WIE Chair, Secretary and Vice Chair Delhi Section. The section also provided Rs. 20,000 financial assistance to Hyderabad Section in organising AISWYC-2019 (September 2019) and attending the same by Chair and 12 Students from Delhi Section. Section Chair and Vice Chair of Delhi Section also attended Sir J C Bose lecture in Bangalore.

Support extended to Sub-sections: Section organized two Expert Lectures and awareness Lectures about IEEE Day by Chair and Executive Vice Chair in Punjab Engineering College and University Institute of Engineering and Technology- Chandigarh Sub Section in September and October 2019. The sectional also helped the Rajasthan Sub-section in organizing Rajasthan Student Congress by providing adequate funding from Section and 250 students participated in the same. The Chandigarh and Rajasthan Sub-section were provided yearly financial assistance of Rs.1,00,000/- each from Delhi Section to organize regular activities like IEEE Conference in MNIT Jaipur and student

congress at Chandigarh.

This is in brief about the activities organised in the section. My sincere and heartfelt congratulations to all the sub section chairs, chapter chairs, affinity group chairs, members, student branches and branch chapters and their respective branch counselors. I look forward for another year of dynamic growth and achievements in the Section. I hope that with the enthusiasm and energy of all members and volunteers the section would scale new heights in terms of activities and membership count. My sincere best wishes to the new exec com for 2020.

Dr. Manoj Saxena, Secretary, IEEE Delhi Section (2019)

(For **Annexure-II** please look at the last page of this edition of e-newsletter)

Er. Prakash V. Ekande, of NTPC Ltd. and IEEE Delhi Section Chair (2005-06) pens down *as contribution of Section Standing Committee on 'History'*

Dear Bajaj Saheb,

I recalled old events of years 2005 & 2006 when I was Chairman of IEEE DELHI SECTION. First, Mr. Cleon Anderson the then President of IEEE visited Delhi and next year Dr. Michel Lightner took over as the President IEEE. Because your personal & your family friendship with Dr. APJ Abdul Kalam - Late former President of India (also known as Missile Man of India) it was possible to have meeting with Dr. Kalam Sir. In first time due to limitation on visitors, I could not participate, but the next year I attended the meeting with the then President of India. When he learned that Dr. Lightner is working on Cognitive Technologies, he spent good

time on this subject. While appreciating work going on disabilities, he said that we have to also work lot. Later he personally talked with every one of us.



With IEEE President (2005) W. Cleon Anderson



With IEEE President (2006) Michael R. Lightner

Mrs. Lightner told that she is known musician, he took interest about details. Incidentally Dr. Kalam plays Rudra Vina (Oldest Musical Instrument in Indian Classical Music. Then he asked about your daughter & grandchild. Madam Mrs. Bajaj gave information then he turned to us and laughing said that quote-I have seen the child always with Smiling face, I used to enquire what you have done that he is always cheerful & smiling-unquote. When we came out of room, his Secretary (Mr. Ravi) told us that Kalam Sir spent more than 40 minutes with you all, whereas he had given only 10 minutes to the Speaker of Lok Sabha earlier. He made very cordial mention about you & your family. Similar event happened, when great poet in Marathi Late Vinda Karandikar was given Gyan peeth award by Dr. Kalam, he was very cordial. I had about 4 times chance to meet him & he was very particular about timings.

with regards,
Prakash Ekande

From the archive of Late Er. Raj Kumar Vir of Indian Railways & IEEE Delhi Section Chair (2003-04) as *contribution of Section Standing Committee on 'History'*

Swami Vivekananda and Nikola Tesla: New Findings Part 1

by Somnath Mukherjee

NEAR the end of the nineteenth century two brilliant men with callings far apart came close to each other in the US. One was a Vedantist par excellence, the other a scientist of a rare calibre. At the time of their meeting both were celebrities in their own right. And even today the world has hardly outlived the worth of their individual contributions.

A Unique Dinner

It was 5 February 1896, a Wednesday night. A dinner was arranged at 425 Fifth Avenue, New York. The address belonged to Austin Corbin, the famous American railroad businessman. The New York Herald reported on 9 February that the dinner 'was perhaps the most unique entertainment in the social calendar of the winter season', and that it was arranged by the hostess 'in order that Mme Sarah Bernhardt might meet the Swami Vivekananda'. A few lines later, while describing that Vivekananda was surrounded by 'a brilliant company of young people', the paper mentioned the name of 'Professor Nikola Tesla, the electrician: The Herald further hinted about 'the discourse of Professor Tesla, who is one of the inventors of photographing through opaque substances', as also the 'lengthy disputation on the great questions of life and death and the great hereafter: which the great trio along with the others were engaged in. The report concluded with the observation that 'it was an intellectual treat seldom encountered in social life in the metropolis'.

For her enormity of talent, versatility, greatness, and interest in Swami Vivekananda, Sarah Bernhardt deserves an exclusive article. Here we shall only highlight the significance of her presence at the dinner by quoting the Encyclopaedia Britannica which introduced her as 'the greatest French actress of the 19th century and one of the

best-known figures in the history of the stage.'¹

A Quiet Propinquity

Nikola Tesla had frequented Vivekananda's public lectures in New York on his own, and when they actually met, both enjoyed the interaction. Vivekananda later said in his lecture at Kumbakonam in February 1897:

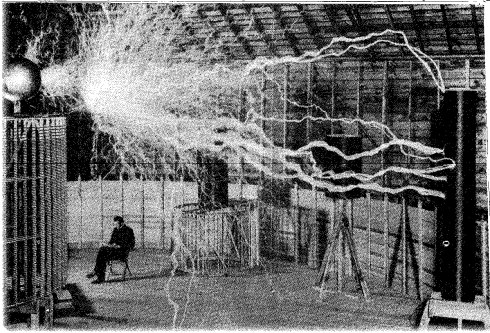
I have myself been told by some of the best Western scientific minds of the day, how wonderfully rational the conclusions of the Vedanta are. I know one of them personally who scarcely has time to eat his meal or go out of his laboratory, but who yet would stand by the hour to attend my lectures on the Vedanta; for, as he expresses it, they are so scientific, they so exactly harmonise with the aspirations of the age and with the conclusions to which modern science is coming at the present time.²

Vivekananda and Tesla were, undoubtedly, inhabitants of a soaring cerebral altitude well beyond the grasp, or even perception, of the multitudes. Both were instantly drawn towards each other's works and embarked on matters normally left untouched by ordinary mortals. We find that a few days following the dinner, on 13 February, Vivekananda wrote to his European disciple E T Sturdy:

Mr Tesla was charmed to hear about the Vedantic Prana and Akasha and the Kalpas, which according to him are the only theories modern science can entertain. Now both Akasha and Prana again are produced from the cosmic Mahat, the Universal Mind, the Brahma or Ishvara. Mr Tesla thinks he can demonstrate mathematically that force and matter are reducible to potential energy. I am to go and see him next week, to get this new mathematical demonstration. In that case, the Vedantic cosmology will be placed on the surest of foundations (5.101).

Opinion contemporary to our time has thus summed up Nikola Tesla's contribution to science: 'It is nearly impossible to enter a modern room or vehicle, whether an automobile or the space shuttle and not see some device, whether a computer screen or a telephone, that can be traced back to his genius.'³ Let us draw a short biographical

sketch of this man and see the justification for such assertions.



Tesla sits below the 'Tesla Coil' in his Colorado Spring Laboratory. The coil creates millions of volts of electricity with a frequency rate of 100,000 alterations per second. This photograph demonstrates Tesla's unique flair for publicity. It was made using both timed and double exposures and shows Tesla calmly reading, apparently during a raging indoor lightning storm. It was first published in the Century Illustrated Monthly Magazine, June 1900

The Scientist and Inventor

Nikola Tesla was born on 10 July 1856 at Smiljan in Croatia. Because a thunderstorm was raging the night Nikola was born, his mother prophesied that her son will be a 'child of light'. Born to a priest of the Serbian Orthodox Church, Tesla studied at the Austrian Polytechnic in Graz. He left Graz in 1878 and took his first appointment as an assistant engineer, for a year, in Slovenia. Later, he went to study at the Charles-Ferdinand branch of the University of Prague. Following his father's death, he abruptly left the university after completing a single term. In 1881 he worked for the American Telephone Company in Budapest.

Tesla went to Paris in 1882 to work as an engineer with the Continental Edison Company. During this time he came up with his induction motor and began developing various devices that used rotating magnetic fields-for which he obtained patents in 1888. But the European engineers were not ready for Tesla's innovation, and on 6 June 1884 he immigrated to the US to try his luck there. While entering America, Tesla was carrying a letter of recommendation in which the

manager of his previous company wrote to Thomas Alva Edison, 'I know two great men and you are one of them; the other is this young man' (ibid.).

Accordingly, Tesla obtained an appointment with Edison Machine Works as an electrical engineer. Besides the recommendation letter, Tesla also had with him two other items: a few self-written poems and a diagram of an aircraft-fifteen year before the Wright brothers presented their aircraft project.

Edison was the inventor of DC electricity and he firmly believed in its future. Tesla, contrarily, was intently focused on his AC polyphase design, and was sure of its superiority. Shortly, the inevitable happened, and Tesla had to leave Edison Machine Works. Although in 1886 he had already created his own company- Tesla Electric Light & Manufacturing-the financial investors were sceptical of his project. So, in 1886 and 1887 Tesla had to even work as a common labourer to earn his sustenance and build a meagre capital to pursue his dream.

In 1887 he came up with the first brushless alternating current induction motor. As was stated earlier, in February 1882 Tesla discovered the rotating magnetic field, which happens to be a fundamental principle in physics and the basis of nearly all devices that use alternating current. After developing the polyphase alternating current system of generators, motors, and transformers, in 1888 Tesla presented his invention to the American Institute of Electrical Engineers through a paper that became a classic: 'A New System of Alternating Current Motors and Transformers'. Later he obtained forty basic US patents connected with this invention. After a short time he sold the patents of his polyphase system to the US industrialist George Westinghouse, the owner of the Westinghouse Electric Company. Tesla had two motives behind this transaction: he wanted to ensure that his invention had a broader application and that he could work uninterruptedly for its development. With such aims in mind Tesla even joined up with the Westinghouse Electric Company in Pittsburgh. In 1889 he became a US citizen.

An unavoidable battle followed; on the surface it was between two technologies-DC electricity versus AC electricity. Underneath it was a battle between two extraordinary persons with diametrically opposite approaches to work and science-Thomas Alva Edison and Nikola Tesla. But science or industry has never shown any bias or preferences for individual characters; it has always evaluated things from a utilitarian point of view. And in this test Nikola Tesla, or for that matter the Westinghouse Electric Company, had a quick and decisive win. The benefit went to both America and the world at large. As Isaac Asimov summed it up: 'Edison had committed himself to direct current, and he fought the use of alternating current, but he lost eventually.'⁴

Tesla's invention was first used on a massive scale in the 1893 World's Columbian Exposition in Chicago, where the Westinghouse Electric Company had been entrusted to provide electricity. In 1895 Westinghouse was awarded the Niagara Falls Power Project. Using the generators and motors invented by Tesla, power was harnessed from the waterfall and AC electricity was delivered to Buffalo, a distance of about thirty-five kilometres from the falls.

Nikola Tesla was a phenomenal genius and his penchant for inventions could never be sated. In 1891 he developed the 'Tesla Coil', a type of high frequency transformer that we still use in our radio and television transmissions. During the period between 1891 and 1893 he lectured in many parts of America and Europe and elicited widespread interest in the use of high-frequency currents, which soon became known as 'Tesla Currents'. In 1893 he predicted wireless communication and devised basic circuits and apparatuses for this purpose. These were later adapted by Tesla himself as well as by others while developing actual wireless transmission. Tesla also generated artificial lightning in one of his laboratories in 1899.

Among his other notable achievements were the path-breaking experiments in shadowgraphs, similar to those that gave birth to X-rays in 1895 at the hands of Wilhelm Rontgen. The neon or fluorescent lighting system also has Nikola Tesla as its

creator. Besides, Tesla made valuable contributions in later days to the development of the radar and the aircraft.

But Tesla's brilliance was confined to his scientific pursuits; his financial needs were entirely overlooked. During his long life he was repeatedly hamstrung by this and, as a consequence, faced deprivation and solitude in his later days. As early as 1900 Tesla proposed to provide worldwide wireless communication and to furnish facilities for transmitting pictures, messages, weather warnings, and stock reports over long distances. For this mega project he raised a sum of one hundred and fifty thousand dollars from the great American financier John Pierpont Morgan (1837-1913). This project was very dear to his heart, but had to be abandoned for eventual non-cooperation from his financier and serious labour troubles.

When the Italian inventor Guglielmo Marconi (1874-1937) was given credit for inventing the radio, Tesla was hurt for being denied his legitimate recognition. He reportedly alleged in private that Marconi in his radio had used technologies for which Tesla held the original patents. Later Tesla took the matter to court to have his rights restored. It is ironical that in 1943, just after Tesla died, the Supreme Court of the United States upheld his claim and invalidated most of the patents held by Marconi for radio communication equipment.

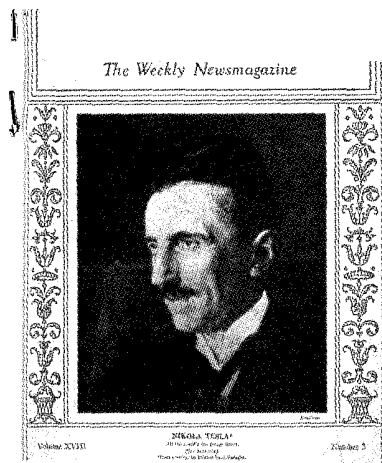
In his almost unbelievable scientific feats, Nikola Tesla appears to be in a class of his own. But Tesla could also easily match any of the great tragic protagonists of Shakespeare. Anybody capable of creating even a single of his many inventions-he is reported to have had seven hundred patents in his name-could easily have achieved perpetual prosperity. But Tesla's fate was otherwise. **On 18 May 1917 he was awarded the prestigious American Institute of Electrical Engineers' Edison Medal. Dr Bernard A Behrend, his physicist friend who presented him with the award, said in his speech: 'Were we to seize and eliminate from our industrial world the results of Mr Tesla's work, the wheels of industry would cease to turn, our electric cars and trains would stop, our**

towns would be dark, our mills would be dead and idle His name marks an epoch in the advance of electrical science.'⁵

This apart, and notwithstanding the fact that he 'continued to invent devices of commercial and scientific worth; we find that 'he received little profit'. A bachelor who allowed himself only a few close friends, 'Tesla was a complete recluse in his last years, living in a series of New York hotel rooms with only pigeons for company'⁶

In 1915 the New York Times had hinted that the year's Nobel Prize for physics would go jointly to Thomas Alva Edison and Nikola Tesla. But that never happened, and none of the two legendary inventors were ever awarded the prize. Rumour had it that Tesla disagreed to share the prize with Edison, whom he did not consider a pure scientist; besides, he was aggrieved because Marconi had already received the Nobel Prize for an achievement which rightfully belonged to him.

TIME



On Monday 20 July 1931 the prestigious weekly Time came out with Tesla's picture on its cover honouring his 75th birth anniversary. In the cover story the magazine wrote:

People who all their lives have lived by means of the devices he has invented and inspired, people who have forgotten there were an Alessandro Volta, an Andre Marie Ampere, a

Georg Simon Ohm, a Charles Augustin de Coulomb, a Luigi Galvani or a James Watt, are reminded that there still is a Nikola Tesla (pronounced Tcshlah) who long ago rave [sic] them the Tesla induction motor which made alternating current practical, and the Tesla transformer which steps up oscillating currents to high potentials (15,000,000 volts he avers, with 100,000,000 possible)⁷

Finally, on 8 January 1943 the New York Times came out with a full page obituary under the headline 'Nikola Tesla, 86, Prolific Inventor' which mentioned: 'Nikola Tesla, one of the world's greatest electrical inventors and designers, was found dead last night in his suite at the Hotel New Yorker.'⁸

On 13 January 1943 the New York Times, while reporting the funeral, wrote under the heading '2,000 Are Present at Tesla Funeral':

Inventors, Nobel Prize winners, leaders in the electrical arts, high officials of the Yugoslav Government and of New York, and men and women who attained distinction in many other fields paid tribute yesterday to Nikola Tesla, father of radio and of modern electrical generation and transmission systems, at an impressive funeral service in the Cathedral of St. John the Divine

Many telegrams were received from officials of the United States Government, prominent scientists, literary men and many others "" Mrs Roosevelt's message read: 'The President and I are deeply sorry to hear of the death of Mr Nikola Tesla. We are grateful for his contribution to science and industry and to this country....

Drs. Millikan [Robert Andrews Millikan (1868-1953), American physicist and Nobel laureate], Compton [Arthur Holly Compton (1892-1962), American physicist and Nobel laureate] and Franck [James Franck (1882-1964), German-born American physicist, chemist and Nobel laureate] paid tribute to Tesla as one of the world's outstanding intellects, who paved the way for many of the important technological developments of the modern times (ibid.).

After this impressive funeral Tesla was relegated to an apparent oblivion till his birth

centenary.

Recognizing the Prodigal Genius

The Committee of Action of the International Electrotechnical Commission, in its meeting held in Munich on 27 June 1956, took the following decision:

"In view of the celebration of the centenary of the birth of NI KOLA TESLA, which was [sic] to be held in Belgrade in July, 1956 and which Dr Dunsheath would attend, it was decided on the proposal of Mr Sogge that the President of the I.E.C. should convey the following message on behalf of the Commission to the NIKOLA TESLA Centenary Committee:

'The Committee of Action of the I.E.C. desires the President of the I.E.C. as its personal representative at the Tesla Centenary Celebration to convey to all who are there assembled, the warm greetings of the I.E.C on this occasion in commemoration of the great Tesla

'The I.E.C. is very happy that this fact has been marked this year by the agreement they have reached for the world unit of magnetic flux density in the Giorgi system to be called "tesla".⁹

Forty-one years after the above recognition, the internationally acclaimed Life magazine wrote in its September 1997 issue: 'Tesla is among the 100 most famous people of the last 1000 years. He is one of the Great men who divert the stream of human history.... He may be second only to his ex-boss Thomas Edison as the most farsighted inventor of the electric age. His work on the rotating magnetic field and alternating current ... helped electrify the world by enabling power to travel over wires to customers great distance away.'¹⁰

And before returning to the central theme of our article, we would better look into a recent revival of interest in Nikola Tesla:

The 21st century has seen a dramatic resurgence of interest in Tesla and his work. 2006, the 150th anniversary of his birth, was

declared the Year of Tesla by UNESCO and was marked by celebrations in both his native Croatia and in his family's homeland, Serbia: Belgrade airport is now officially Belgrade Nikola Tesla Airport. 2006 also saw the birth of the Tesla Roadster, a high-performance electric car designed by Lotus; perhaps less excitingly, though no less significantly, an engine on Silverlink's North London Line was named the Nikola Tesla in 2001.

This change in Tesla's posthumous fortunes is perhaps best reflected in the titles of his biographies: the first, published in 1944, was Prodigal Genius; 1981 saw him as a Man Out of Time; by 2001 he was The Man Who Invented the Twentieth Century.¹¹

Besides, in 1975 America honoured Nikola Tesla by inducting him in the Inventor's Hall of Fame. Later, in 1983 the United States Postal Service issued a commemorative stamp with Tesla's picture on it.

The First Meeting

We still do not know when exactly Vivekananda had his first contact with Nikola Tesla. Therefore let us chronologically examine the occasions where their dual presence is known or assumed.

The very next day after reaching Chicago—probably on 2 August 1893¹² ----Vivekananda went to visit the World's Fair where 'he visited the various exposition palaces, marvelling at the array of machinery, at the arts and products of many lands, and, above all, at the energy and practical acumen of the human mind as manifested by the exhibits He continued to frequent the fair, eager to absorb all that was of value. He was fascinated by the splendour and perfect organization of it all.'¹³

We also have proof of Tesla's presence at the Fair ground:

At the 1893 World's Fair, the World's Columbian Exposition in Chicago, an international exposition was held which for the first time devoted a building to electrical exhibits. It was an historic event, as Tesla and George Westinghouse introduced visitors

to AC power by using it to illuminate the Exposition. On display were Tesla's fluorescent lamps and single node bulbs.

Tesla also explained the principles of the rotating magnetic field and induction motor by demonstrating how to make an egg made of copper stand on end in his demonstration of the device he constructed known as the 'Egg of Columbus'¹⁴

Given their mutual roles on this occasion—one an eager and absorbed spectator and the other a remarkable scientist displaying unbelievable feats to

The spectators—the chances that they got to know each other are low; the mass of spectators thronging the fair everyday was in itself a hindrance.

Another possible occasion when they might have met for the first time was the dinner Prof. Elisha Gray gave in honour of the swami:

Because of the various congresses held in connection with the World's Fair, Chicago was at this period a meeting-place of some of the best minds of the day. Inevitably, the Swami came in contact with many thinkers, famous and influential in their own fields. In September of 1893, immediately following his appearance at the Parliament, he was introduced to a group of noted scientists who had gathered in the city to attend the Electrical Congress, held from August 21 through 25. A vegetarian dinner was given especially in his honour by Professor Elisha Gray, the inventor of electrical equipment, and his wife in their beautiful residence in Highland Park, Chicago. Among the distinguished guests invited to meet him were Ariton Hopitalia, Sir William Thomson, afterwards Lord Kelvin, and Professor Hermann von Helmholtz, the last two of whom were eminent in the field of physics. The Swami's knowledge of electricity amazed the scientists, and his shining repartee bearing on matters of science was greeted with sincere pleasure. With one voice they acclaimed him a sympathetic confrere.¹⁵

Although Tesla's presence at the above dinner has not yet been proved, considering

his vocation and achievements, there is scope for assuming his presence.

The next possibility takes us to New York, 1896. A clue is given by the swami himself in his lecture 'The Mission of the Vedanta' at Kumbakonam cited earlier. According to Marie Louise Burke, the eminent researcher on Vivekananda's activities in the West, Nikola Tesla had frequented the swami's public lectures in New York during the early part of 1896. It also corresponds with the swami's claim about the scientist 'who yet would stand by the hour to attend my lectures on the Vedanta, as we have seen before. Vedanta was the central theme of the seven Sunday public lectures of the swami in January and February 1896, held first in the Hardman Hall and then at the Madison Square Garden, New York. If Tesla were present at one or more of these lectures, the speaker could have noticed him. But, again, their coming into close contact on these occasions was difficult; moreover, we have nothing to confirm this guess.

In sum, the first clear mention of their actual meeting is found in the swami's letter to Sturdy cited above. We have, therefore, no other evidence to validate a meeting between Vivekananda and Tesla prior to the dinner arranged by the Corbins.

(To be continued in the next edition under Part 2)

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IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE

IEEE Delhi Section has as per **latest (October 03, 2020)** statistics **3663 active Member (including 19 Society Affiliates)**, consisting of **0 Honorary Member, 7 Life Fellow, 7 Fellow, 33 Life Senior, 393 Senior Member, 7 Life Member, 1329 Member, 27 Associate Member, 547 Graduate Student Member, 1293 Student Member, 1 SA.**

Annexure-II

IEEE Delhi Section Financial Report for the year 2019									
Receipts					Disbursements				
SN	Item/Head	2019	2018	2017	SN	Item/Head	2019	2018	2017
1	Opening balance:-				1	4.1 Meetings Expenses	1,56,843.70	1,13,853.00	1,14,467.00
2	SBI DT Delhi ac on 1st Jan 19 (AC_1571476)	23,318.00	42,499.18	43,36,079.49	2	4.1-Meetings AGM	2,02,336.20	1,71,319.00	4,27,520.00
3	Cash in hand as on 1st Jan 19	2,400.00	3,395.00	6,025.00	3	Conference 2018 SENSORS	0.00	34,42,908.00	
4	Deposit/Swap Ac 37360140722	5,15,000.00	-	-	4	Special Events/Confer Committee	Included as 4.1	41,200 (Refund Rs 16,311.48)	31,488.00
5	Deposit/Swap Ac 3113476103	2,03,000.00	-	-	5	Conference Seed Money	0.00	1,00,000.00	
6	Deposit/Swap Ac 37360725233	18,27,183.00	43,52,000.00	-	6	4.3 Professional Activities Technical Activities	16,933.00	1,00,243.58	
7	Bank loans	27,639.00	7,838.00	1,92,175.00	7	Advance for Outstation Meetings & Travel support	140000 (Refund received in S.N 22)	1,20,000 (Refund as S.N 22)	2,20,000.00
8	Interest received from Savings Accounts/Deposit accounts	30,837.00	2,39,149.00	-	8	4.3 Professional Activities Industry Relations/Public Relations & Publicity	17,998.00	30,418.00	36,990.00
9	Delhi Section Operating Funds	13,24,024.00	13,11,807.00	3,06,430 (incl. Refund of 2018)	9	Industry Relations/Global Entrepreneurship Summit	0.00	9,980.00	43,981.00
10	HTC/Smart Village/EPIC's Funds/AD/EDM/STEP Funds	17,600.00	7,452.00	-	10	4.5-IEEE HQ & Society Expenses R 10000 Student, Student, HQ Funds	13,81,261.24	7,89,446.00	1,71,280.00
11	PES-IAS/PELS-005 PES Women in Power	3,14,354.00	1,49,431.00	4,83,327.00	11	5.3-Travel Expenses Member Outstation	4,99,288.00	1,24,276 (Refund 14,033.48 S.N 22)	49,813.64
12	Seed Money recd 2018 SENSORS funds for HQ use	1,67,630.00	94,82,907.60	10,52,740.00	12	Special Projects (Vid. Incentive)/SAC/DOT	0.00	18,430.00	23,996.00
13	MIT-S	4,89,843.00	3,09,263.00	2,80,100.00	13	4.9-Other Program Expenses Membership Dev Fellow Nomination	60,950.00	43,312.64	37,304.92
14	SPAC	2,09,100.00	-	-	14	4.8-Student Activities	4,96,425.76	3,21,000.00	3,10,940.00
15	Other Incentive Awards (MGM/SYM)	90,100.00	65,075.00	-	15	4.9-Support to Sections/Chapters CAS-Central/CIS/CS/Support	3,24,306.00	-	75,376.00
16	WE (SBAG)	24,734.00	64,566.00	42,062.00	16	PES-IAS/PELS-005/HSQ funds	Included as 2.36 (DNR 1,75,687)	3,93,313.00	33,41,231.00
17	Education Society Computer Society San (NICE)	49,791.00	16,278.00	-	17	Consultants Network Affairs Group	Included as 3.3	16,040.00	
18	Conference fee	2,24,000.00			18	Rajasthan & Chandigarh Subsection	Included as 3.3 (DNR 1,00,000 approx)	1,00,000.00	1,00,000.00
19	Students Branches HQ Support	3,75,577.00	4,75,483.00	1,31,693.00	19	SICSR/10 States Congress BALT	Included as 4.8	2,27,073.00	-
20	810 incentive for Commemorative book/support fund for Entrepreneurship Society/YPCAS	10,743.00	18,576.00	25,464 (CAS)	20	WE	0.00	38,974.00	83,778.00
21	EDS	70,950.00	96,799.00	1,59,007.00	21	HTC/EPIC/SIGHT	0	50,000.00	51,387.00
22	Refunds from Chap. Members/Chair Travel	2,84,187.00	1,75,612.00	-	22	MIT-S	Included as 3.36 (DNR 1,80,842)	3,22,743.00	2,00,100.00
23	Received from IEEE for Dinner Meet/IC Refund	190.00	26,311.00	-	23	Education Society (Activities)/MCC/TEDM/4	Included as 3.3 (DNR 14,000)	40,000.00	35,771.00
24	INDICOP Seed Money Received	1,00,000.00	-	-	24	EDS	Included as 3.36 (DNR 61,436)	1,18,954.00	-
25	BY TRANSFER (IMP/SH/AD/2020/08-BLSA POSTING-ECO BANK-Reg. Sealing)	6,000.00	-	31,346.00	25	IM-00MS/MS/RA	Included as 3.36 (DNR 20,200)	11,380.00	-
26	Award (Thapar) PES-IAS (DTL)	0.00	-	93,007.00	26	4.9-Other Program Expenses Professional Charges	3,02,264.00	37,700.00	9,000.00
27	RIO Spk Reimbursement for Events/Workshops	0.00	-	2,03,463.00	27	4.4-Other Expenses Electronic Communications	30,180.00	-	17,616.00
28	Reimburse from Google/NDRC	0.00	15,000.00	75,000.00	28	YP	Included as 2.36 (DNR 15,794)	45,000.00	34,458.00
29	Advance Received from	0.00	2,20,000.00	3,38,916.00	29	contingency & Misc	9,389.00	10,775.00	4,522.00
30	Total Inflow	37,17,088.00	136,86,194.00	34,79,652.00	30	Bank Charges	442.00	796.50	1,332.35
31	Total	82,88,489.62	172,84,513.78	78,12,758.48	31	Total Spent	36,54,954.90	127,13,642.16	28,48,619.31
					32	Closing Balance SBI DT Delhi on 31 December	9,73,314.62	23,318.02	42,499.18
					33	Deposit/Swap Ac 37360725233	29,31,183.00	18,27,183.00	43,52,000.00
					34	Deposit/Swap Ac 37360140722	5,15,000.00	5,15,000.00	-
					35	Deposit/Swap Ac 3113476103	2,03,000.00	2,03,000.00	0
					36	Cash in hand	7,637.10	2,400.00	3,395.00
					37	Total	82,88,489.62	172,84,513.78	78,12,758.48

Lee Gupta
Mr Vijay K. Gupta (Internal Auditor)

Prof. Prerna Gaur
Prof. Prerna Gaur (Chair)

Jasdeep Kaur
Dr Jasdeep Kaur (Secretary)

20/12/2020



vol 20 no 11-12
November-December 2020

From the desk of ECC

My dear esteemed Members,

Coming back to you with the present issue of IEEE Delhi Section e-Newsletter for the last two months of the year 2020, thus completing its journey of 20 years starting from January 2001. In this edition besides the usual ones on Lecture Schedule, Conferences to be held, Section Membership, etc. some other important features that may be of interest are incorporated. Almost toward the end of the year Section had the opportunity to hold two major events online, i.e., IEEE India Council Flagship Conference INDICON, rather its 17th Edition along with the Council and then AISYWLC (All-India Student, Young Professional, Women-In-Engineering, Life Member Congress) online that earned feathers in its cap.

Shortly Section is going to have its Annual General Meeting (AGM). Please wait for the announcement to participate in large number, particularly so if it is decided to go online. Of course, notwithstanding the continuing with the atmosphere of Pandemic, with the lesson learned, there is no stoppage of activities, which are mostly being conducted in virtual mode, whether evening lecture, tutorial or conference. Look for every opportunity to participate in the events disseminating knowledge in various fields. In this context besides the circulation from Section, depending upon interest Members may like to see those coming from various societies of IEEE and in India from the Council, and other Professional Bodies, e.g., IE(I), IETE, CSI, ISTE, etc. and Institutes / Organizations, mostly free of any charge.

With best regards and wishes,

(Dr. Subrata Mukhopadhyay)
IEEE Delhi Section

January 31, 2021 (*Sunday*)

E-mail: ieeedelhi@ieee.org

Web-site: www.ewh.ieee.org/r10/delhi

Schedule of Lecture(s)

Surf IEEE vTools Meeting System (<https://meetings.vtools.ieee.org/main>), then login with User Name and Password, and View Existing Meetings / View Published Meetings

(https://meetings.vtools.ieee.org/meeting_view/list) for the Upcoming Meetings in respect of IEEE Delhi Section and its Society Chapters / Affinity Groups.

List of IEEE Conferences in the geographic area covered by the IEEE Delhi Section

(<http://ewh.ieee.org/r10/delhi/event.html>)

Held in 2020

- 3rd International Conference on Emerging Technologies in Computer Engineering: Machine learning and Internet of Things (ICETCE-2020)

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/46199) held during February 7-8, 2020 (Friday-Saturday) by the Department of Computer Science & Engineering and Information Technology. Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Ramnagar, Jagatpura, Jaipur-302017, Rajasthan, India (having Conference website: <http://www.icetce.in/2020>)

- Indo – Taiwan 2nd International Conference on Computing, Analytics and Networks (Indo-Taiwan ICAN2020)

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/48429) jointly organized by Chitkara University, India & National Chung Cheng University, Taiwan during February 7-8, 2020 at National Chung Cheng University, Taiwan No. 168, Section 1, Daxue Road, Minxiong Township, Chiayi County, Taiwan 62102 & on February 14-15, 2020 at Chitkara University, Punjab, India Chandigarh-Patiala National Highway (NH-64), Rajpura, Punjab 140401, India (having Conference website: <https://www.chitkara.edu.in/cse-can>)

-1st International Conference on Emerging Trends in Communication, Control and Computing (ICONC3)

(https://conferences.ieee.org/conferences_events/conferences/conferencedetails/45789) held during February 21-22, 2020 (Friday – Saturday), as re-scheduled, at Mody University of Science & Technology (MUST), Lakshmangarh, Rajasthan, India (having Conference Website: <http://www.muconference.in/>)

- 9th IEEE Power India International Conference (PIICON2020) (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49524) held during February 28 - March 01, 2020 in the Department of Electrical Engineering, Deenbandhu Chhotu Ram University of Science & Technology (DCRUST), Murthal, National Capital Region, Haryana, India (having Conference website: <http://PIICON2019.in>)

- 14th edition of INDIACom, i.e. INDIACom – 2020; 2020 07th International Conference on Computing for Sustainable Global Development (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49435) held during March 12-14, 2020 at BVICAM, Bharati Vidyapeeth, New Delhi, India (having Conference website: <http://www.bvicam.ac.in/indiacom/>)

- 2020 First IEEE international conference on Measurement, Instrumentation, Control and Automation (ICMICA 2020) (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/48462) during June 24-26, 2020 in virtual mode at National Institute of Technology Kurukshetra, Kurukshetra (having Conference website: <http://www.icmica2020.com/>)

- 2020 Sixth International Conference on Parallel, Distributed and Grid Computing (PDGC-2020) (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/50313) during November 6-8, 2020 in virtual mode at Jaypee University of Information Technology, Waknaghat, near Solan, HP, India (having Conference website: <http://www.juit.ac.in/pdgc-2020/index1.php>)

- 15th IEEE International Conference on Industrial & Information Systems (IEEE – ICIIS) – 2020 (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51140) during November 26-28, 2020 in virtual mode

at Indian Institute of Technology Ropar, Punjab – 140001, India (having Conference website: <http://www.iitrpr.ac.in/iciis2020/>)

- 4th International Conference and Workshops on Recent Advances and Innovations in Engineering (ICRAIE 2020) (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51050) during December 1-3, 2020 at Poornima College of Engineering, ISI 6, RIICO Institutional Area, Goner Road Sitapura, Jaipur, Rajasthan 302022, India and Indian Institute of Technology, NH 65, Surpura Bypass Road, Karwar, Jodhpur, Rajasthan 342037, India (having Conference website: <http://www.icraie.poornima.org/index.html>)

- 2020 IEEE Seventeenth India International Conference (INDICON 2020) (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/49873) during December 11-13, 2020 in virtual mode at Netaji Subhas University of Technology, Sector-3, Dwarka, New Delhi-110078, India (having Conference website: <http://www.indicon2020.in/>)

To be held in 2021

- 15th Edition of INDIACom (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51348) during March 17-19, 2021 at BVICAM, Bharati Vidyapeeth, New Delhi, India (having Conference website: <http://bvicam.ac.in/indiacom/>)

- Second International Conference on Secure Cyber Computing and Communications (ICSCCC), 2021 (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/51823) during May 21-23, 2021 at Dr. B R Ambedkar National Institute of Technology Jalandhar, Punjab, India (having Conference website: <https://www.nitj.ac.in/icsc2021/>)

- 2021 IEEE Indian Conference on Antennas and Propagation (InCAP 2021), the 4th edition of IEEE Indian Conference on Antennas and Propagation launched and organized by AP-S chapters of India, (https://conferences.ieee.org/conferences_events/conferences/conferencedetails/52216) during December 16-19, 2021 at Malaviya National Institute of Technology, Jaipur

(MNIT Jaipur), Rajasthan, India (having Conference website: <http://jaipur.incapindia.in>)

Notice with circulation of slate of IEEE Delhi Section Executive Committee for 2021 enabling petition, if any, to be submitted within 28 days, i.e., latest by 20 February 2021 (Saturday) against one or more positions in the slate (excluding the positions of Chair and Past-Chair) following the procedure

No. IEEE/Delhi-2021/005
January 23, 2021 (Saturday)

Dear IEEE Members belonging to Delhi Section,

IEEE Delhi Section Standing Committee on Nomination with Prof. K. Subramanian (ex-NIC) as Chair, and Prof. Bhim Singh (IIT Delhi), Prof. Subrata Mukhopadhyay (NSUT), Prof. Ranjan K. Mallik (IIT Delhi), Dr. Harbans L Bajaj (ex-ATE), Prof. Sukumar Mishra (IIT Delhi), & Prof. Alok P Mittal (NSUT) as Members finalized and submitted the slate of IEEE Delhi Section Executive Committee for 2021.

As per provisions in the Section Bylaws (referring to Section website at <http://ewh.ieee.org/r10/delhi>), this communication may be treated as notice with circulation of slate enabling petition, if any, to be submitted within 28 days, i.e., latest by 20 February 2021 (Saturday) against one or more positions in the slate (excluding the positions of Chair and Past-Chair) following the procedure mentioned therein.

Thanks & warm regards / best wishes.
Subrata
(as Electronic Communications Coordinator, for and on behalf of Nomination Standing Committee of IEEE Delhi Section)

Prof. (Dr.) Subrata Mukhopadhyay,
SrPE, valued IEEE Member for 52 years

S. No.	Name & Affiliation - Area	Position
1.	Prof. Rachana Garg (DTU)	Chairperson

	– Delhi, P & E	
2.	Prof. Abdul Q. Ansari (JMI) – Delhi, C & IT	Exec Vice Chairman
3.	Prof. M. N. Hoda (BVICAM) – Delhi, C & IT	Vice Chairperson
4.	Dr. Rajnish Sharma (Chitkara University, Chandigarh) – Chandigarh-Punjab, E & CE	Secretary
5.	Dr. Shabana Urooj (GBU, Gr. Noida) – <u>UP, Biomedical</u>	Joint Secretary
6.	Dr. Sneha Kabra (DU) – Delhi, E & CE	Treasurer
7.	Prof. Prerna Gaur (NSUT) – Delhi, P & E	Past Chairperson
8.	Mr. Ajay Goel (Altran) – Delhi /Haryana – E & CE	Member
9.	Prof. Mahesh M. Bunde (Poornima University, Jaipur) – Rajasthan, C & IT	Member
10.	Prof. Jasdeep Kaur Dhanoa (IGDTUW, Delhi) – Delhi, E & CE	Member
11.	Dr. Bharat Singh Rajpurohit (IIT Mandi) – HP-J K + Ladakh, P & E	Member
12.	Mr. Vijay K. Dutt (ex-Railways) – UP, P & E	Member
13.	Dr. Shruti Jain (Jaypee Univ., Wagnaghat) – HP-J & K + Ladakh, E & C E	Member
14.	Dr. Rashmi Agarwal (JC Bose Univ. of Sc. & Tech) – Haryana, P & E	Member
15.	Prof. Meenu Khurana (Chitkara University, Chandigarh) – Chandigarh-Punjab, C & IT	Member
16.	Mr. Archit Goswami (Co at Gurgaon) – Delhi/Haryana, C & I	Member

Brief Report on INDICON 2020

(as coordinated in virtual mode from NSUT, New Delhi, India during December 10 to 13, 2020)

The 17th IEEE India Council International Conference INDICON2020 is one of the biggest virtual conferences ever organized by IEEE India council. Even in the time of a pandemic participants could have get together and celebrate the power of research and technology on an international level. The most awaited time of IEEE INDICON was on

11th to 13th December, where around 500 researchers of IEEE India and all over the world showcased innovative contributions. The 17th edition of IEEE INDICON started successfully with tutorials on 10th December, 2020 starting at 10 AM. Chief guest, of the inauguration was Dr Radhakrishnan, former Chief ISRO, keynote speaker Prof Toshio Fukuda, Guest of honor, Er Rajeev Sharma, CMD EESL, R 10 Director, Akinori Nishihara, Chief Patron, Hon'ble Vice chancellor, Prof J P Saini, Patrons INDICON2020, Prof S N Singh, and Prof Bhim Singh, Prof Prerna Gaur, General Chair INDICON2020, Dr Puneet Mishra, Awardees of India Council, other dignitaries from IEEE Region 10, EXEC COM members and Participants from around 10 countries attended the Conference.



Simu-live inauguration of INDICON2020

INDICON 2020 started with three Tutorials of Prof J R Saini, Director Symbiosis Pune, on "Natural language processing", Dr C P Ravikumar from Texas Instruments on "Changing role of Semiconductor verification and Test in modern times" and Dr Aman Jha, from S T Microelectronics on "Electric Vehicles and Smart Semiconductor Lighting" on 10th December. In all 12 Plenary Sessions were successfully conducted. The Speakers were R 10 Director-Elect, Dr Lance Fung, Chair-Elect India Council, Dr Suresh Nair, Prof Shiban Koul, IIT Delhi, Prof Bhim Singh IIT Delhi, Mr Meenu Singhal, Vice President Schneider Electric, Dr Preeti Bajaj, Vice Chancellor, Galgotia University, Dr Puneet Mishra, ISRO, Prof Supavadee, Prof Takako Hashimoto, Prof K Subhranian, Prof Celia Shehnaz from Bangladesh Section. M V Chauhan paper contest was organized successfully on 10th December at 3 PM in which a large participation was seen this year. The papers were reviewed by the reviewers of INDICON2020 only. We received 850 papers out of which 411 registrations were accepted finally after rigorous review

work at least by three reviewers from leading institutions and industry. The papers were presented in 57 sessions in three days in which three WIE paper tracks were successfully organized. A panel discussion on the emerging topic was organized, on 13th December 2020 at 3 PM in which leading women from Industry, start-ups, DRDO, Indian Railways, Academia participated from India and abroad, Prof Takako, Prof Celia Shehnaz, Aishwarya, Chair WIE Singapore, Prof Preeti Bajaj, Prof Prerna Gaur, Prof Rachana Garg, Dr Manpreet Kaur, Dr Rashmi Agarwal, Dr Sapna Gambhir were amongst the Panelists. Congratulations to all volunteers of IEEE India Council, IEEE Delhi Section and WIE team.

Reported by

Prof. Prerna Gaur
General Chair, INDICON2020
January 06, 2021

From the archive of Late Er. Raj Kumar Vir of Indian Railways & IEEE Delhi Section Chair (2003-04) *as contribution of Section Standing Committee on 'History'*

Swami Vivekananda and Nikola Tesla:

New Findings

Somnath Mukherjee (Continued from the previous issue)

What took Tesla to Vivekananda

The encounter between Tesla and Vivekananda has, primarily, two important aspects. One is its consequence, the other, no less important, is the reason which took Tesla to the Indian monk. We know that Tesla was an extremely busy man. In an interview in 1894 he had told a news reporter that 'I spend so many hours at my laboratory at times that my friends become alarmed and threaten to lock the place up and hide the key.'¹⁶ We can therefore surmise that Tesla had good reasons for visiting the swami.

In early 1896 Vivekananda was fairly well-known around the greater part of America. His role at the Parliament of Religions in Chicago and later his extensive lecture tours had endeared him to both the American people and the press. Besides, his visits to New York and its neighbouring areas since days before the parliament, and the lectures

he gave during such visits, made him well-known among a section of New York's enlightened citizenry. In a letter published in the *Brahmavadin* of 11 April 1896 Helen F Huntington wrote: 'Swami Vivekananda has made many friends outside the circle of his followers; he has met all phases of society on equal terms of friendship and brotherhood; his classes and lectures have been attended by the most intellectual people and advanced thinkers of our cities; and his influence has already grown into a deep, strong under-current of spiritual awakening He is altogether such a man as "king's delight to honour"¹⁷

Therefore Tesla had reasons to be aware of the swami. Moreover, his indulging in a curiosity to attend the swami's lecture(s) was not impossible. And this curiosity might have been whetted by an article, 'The Ether': which the swami had written for the February 1895 number of the prestigious *New York Medical Times*. In its conclusion the article said: 'And thus we are forced to find that the ether ... cannot explain space because we cannot but think of ether as in space. And, therefore, if there is anything which will explain this space, it must be something that comprehends in its infinite being the infinite space itself. And what is there that can comprehend even the infinite space but the Infinite Mind?'¹⁸

That Nikola Tesla, prompted by his own interest, attended one or more of the swami's early 1896 New York lectures is a distinct possibility. But possibilities, however sound, always leave room for alternatives. And in this case, without more specific information at our disposal, we can never be sure whether Tesla's interest in Vivekananda preceded or succeeded the dinner at the Corbin's'. But in whatever ways his interest ultimately steered him to Vivekananda, the swami's impact could never have grossly differed from that on Ella Wheeler Wilcox, the contemporary New York poet who wrote about her experience of meeting the swami:

He is so simple-so sincere, so pure, so unselfish. To have listened to him all winter is the greatest privilege life has ever offered me.... His discourse this morning was most uplifting.-his

mere *presence* is that. His absolute sinking of *self* is what I like. I am so tired of people who place the capital 'T' before truth-and God. 'To do good for good's sake' -with no expectation or desire of reward, and never to speak of what we have done-but to keep on working for the love of doing God's work is Vivekananda's grand philosophy of life.¹⁹

It would not be out of place here to note that even in those days when news moved slowly, India was not unaware of Nikola Tesla. The *Lahore Tribune* wrote on 21 September 1901: "'Nikola Tesla will be the greatest name of the twentieth century": With this' prediction closes a paper in the *Humanitarian* on the *Electrical Wizard of the West*, which suggests grounds not a few for so daring a hope:²⁰ The *Amrita Bazar Patrika*, a Calcutta paper, wrote in its editorial of 25 October 1900: 'The *Spectator* [an English newspaper] holds that an incalculable improvement would be effected in the conditions of British life if Mr Tesla's method of transmitting electricity should prove practicable and should be adopted on a large scale in Great Britain' (ibid.). Since India at that point of time was under British dominance, the *Amrita Bazar* had preferred to be suggestive and added: 'Did Lord G Hamilton allude to Mr Tesla's proposal when he said that electricity would save India? Surely it would, it could be found that Mr Tesla's ideas could be carried out practically' (2.50).

But the most significant editorial was written earlier, on 16 September 1900, by the *Bengalee*, another Calcutta paper:

MR NIKOLA TESLA has contributed a rare paper in the *Century Magazine*. It is another effort to find a scientific basis for morality or religion and exactly answers the need of the hour ...

The system, elaborated by Mr Tesla, bears a striking resemblance to the searching investigation of the old Brahmans ...

To Nikola Tesla, science is the best revealer and the staunch ally of religion. He, like Patanjali, but unconsciously, repeats almost every word of Kapila, differing merely on the

point of view from which he looks at the forces (2.54-5, note ii).

While writing this editorial, it appears, the Bengalee, or for that matter none in India, knew of the meeting which might have ultimately influenced Tesla's 'rare paper in the Century Magazine'.

Apart from Tesla's getting due recognition in the English language newspapers of India, Ramananda Chatterjee's Prabasi, an eminent Bengali periodical, had written about him in their Aग्रहayan-Paush 1308 BE (November-December 1901) issue, mentioning that 'his name is as famous as Edison's'.

Three Questions

On 8 February 1896, three days after the dinner at the Corbins', Nikola Tesla wrote to Vivekananda:

My dear Sir,

As it would be difficult to answer your questions by letter and as I wish to have the pleasure of meeting you again I would suggest a visit to my laboratory 45 East Houston Street any day next week you find convenient.

Faithfully yours

N Tesla²¹

This letter raises some obvious doubts. First, what were the questions that a sannyasin could possibly pose to a scientist of Tesla's calibre? Second, when and where were these questions presented to Tesla? Was it during the dinner at the Corbins'? If not, then how and when and where those questions communicated? And third, why was Tesla so earnest in his invitation-he wrote: 'I wish to have the pleasure of meeting you again'? Did the swami have a special significance for him?

An elusive suggestion is offered by Louise Burke: 'One searches in vain, both through Swamiji's lectures and writings and Nikola Tesla's published papers, for a further

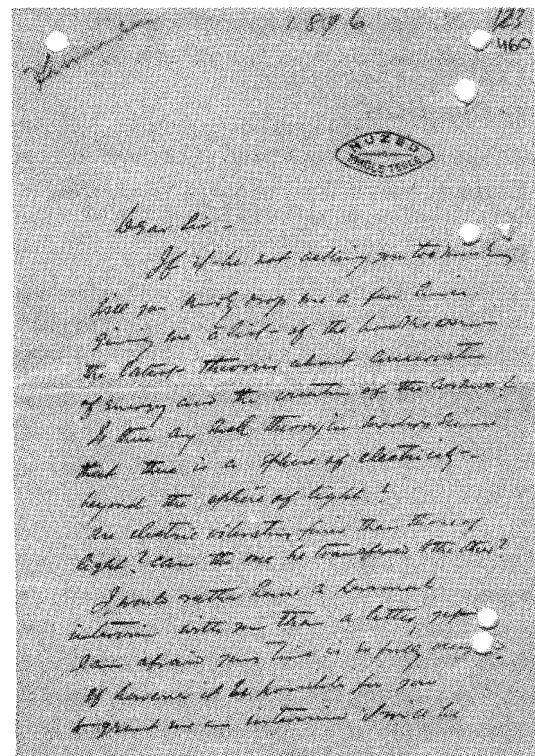
reference to the mathematical demonstration that Swamiji had so hopefully looked forward to. It is highly probable that he met with disappointment' (ibid.).

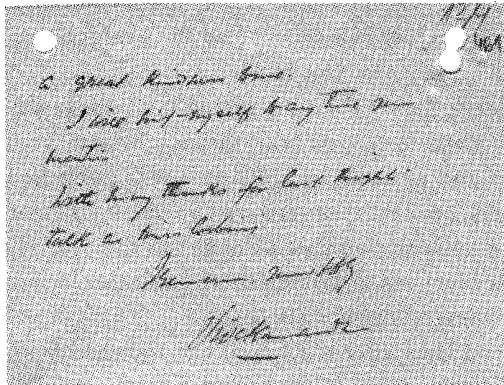
And later, after the swami had returned from his first visit to the West, he said in his lecture 'The Vedanta' in Lahore, on 12 November 1897: 'There is the unity of force, Prana, there is the unity of matter, called Akasha. Is there any unity to be found among them again? Can they be melted into one? Our modern science is mute here, it has not yet found Its way out.'²²

This, in a way, proves that Vivekananda did not get what he had expected from Nikola Tesla. But it hardly provides answers to the three queries above.

A Letter and a Telegram

I got in touch with the Nikola Tesla Museum in Belgrade and the museum authorities were kind enough to provide digitized copies of two documents which have hitherto been unknown: (i) a letter with incomplete date which Vivekananda wrote to Tesla in 1896; and (ii) a telegram sent by Vivekananda to Nikola Tesla on 24 February 1896.²⁴





In my researches on this issue I came across the following lead: 'After Tesla's death the custodian of alien property impounded his trunks, which held his papers, his diplomas and other honours, his letters, and his laboratory notes. These were eventually inherited by Tesla's nephew, Sava Kosanovich, and later housed in the Nikola Tesla Museum in Belgrade.'²³

Let us first take a look at the letter:

1896

Dear Sir,

.If it be not asking you too much will you kindly drop me a few lines giving me a list of the books on the latest theories about Conservation of Energy and the creation of the Cosmos?

Is there any such theory in modern science that there is a sphere of electricity beyond the sphere of light?

Are electric vibrations finer than those of light?

Can the one be transferred to the other?

I would rather have a personal interview with you than a letter, yet I am afraid your time is so fully [?] occupied.

If however it be possible for you to grant me an interview it will be a great kindness to me.

I will suit myself to any time you mention. With many thanks for last night's talk at Miss

Corbin's

I remain yours ffly

Vivekananda²⁵

The depth of thought behind this letter deserves a deep analysis, which is beyond the scope of this article. So we shall proceed with our historical research. The letter has the year of writing, not the date, but we can easily derive the same from its last line: 'With my thanks for last night's talk at Miss Corbin's.' The letter, therefore, was written on 6 February 1896. This also proves that Tesla's letter of 8 February was a reply to this mail. The first two questions thus stand answered. And we should be getting the answer to the third question too shortly.

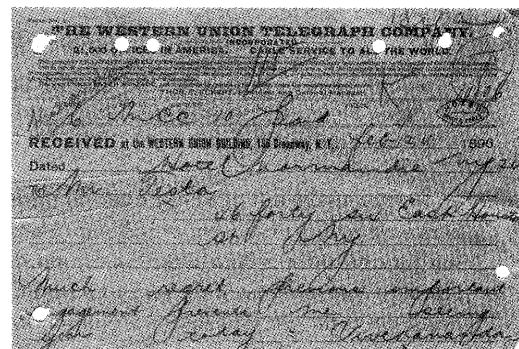
To find out what happened to the swami's proposed visit to Tesla's laboratory, we need to look at the telegram dated 24 February 1896:

THE WESTERN UNION TELEGRAPH COMPANY RECEIVED at the WESTERN UNION BUILDING, 195 Broadway, N. Y. Feb 24 1896.

Dated-Hotel Normandie NY 24

To-Mr. Tesla [sic]

46 forty six East Houston St NY [In Tesla's letter his address was mentioned as 45 East Houston St]



Much regret previous important engagement prevents me seeing you today = Vivekananda.²⁶

In his letter of 13 February Vivekananda had written: 'I am to go and see him [Tesla] next week:

We know that 13 February-was a Thursday. Hence, his 'next week' started on Monday 17 and ended on Sunday 23. And as he was unable to keep the appointment on 24 February, the possibility of their having met the previous week can easily be ruled out. Vivekananda arrived in Detroit on 3 March 1896. So he actually-had only about ten days more to have his appointment rescheduled. Till date, however, we have nothing to suggest that this did actually happen.

Even if he did get to visit Tesla, it is unlikely that the scientist, or for that matter contemporary science in those days, was in a position to prove mathematically what the swami had realized through Vedanta. In 1895, even a whole year before he met Tesla, in his London lecture on 'The Real Nature of Man' Vivekananda had firmly asserted that: 'It s possible to demonstrate that what we call matter does not exist at all. It is only a certain state of force. Solidity, hardness, or any other state of matter can be proved to be the result of motion. Increase of vortex motion imparted to fluids gives them the force of solids. A mass of air in vortex motion, as 1 a tornado, becomes solid-like and by its impact breaks or cuts through solids.'²⁷

Tesla seems to have remained a staunch believer in matter-energy duality. Even as late as 1938 he was asserting: 'There is no energy in matter other than that received from the environment; [this] applies rigorously to molecules and atoms all well as to the largest heavenly bodies, and to all matter in the universe in any phase of its existence from its very formation to its ultimate disintegration.'²⁸

An Affirmation that Changed Science

Exactly three years after the swami's demise, a twenty-six-year-old youth from a middle class Jewish family at UIm, Bavaria, wrote a thirty-page paper with the title 'On the Electro-dynamics of Moving Bodies' for the German journal *Annalen der Physik*. At that time this nondescript youth was serving as a minor official in the Swiss patent office. His

name was Albert Einstein. This paper outlined his Special Theory of Re1ativity. Ten years later he came up with the General Theory of Relativity; and, as the cliché goes, the world could never be the same again. Through his famous equation $E = mc^2$, Einstein demonstrated that energy and mass are equivalent entities, differing only in their physical state. Mass is actually concentrated energy;

The world took its time to assimilate what Einstein had come up with. Tesla also took his time to assimilate what he heard from the Indian monk. Around 1907 he observed:

There manifests itself in the fully developed being, Man, a desire mysterious, inscrutable and irresistible: to imitate nature, to create, to work himself the wonders he perceives. Long ago he recognized that all perceptible matter comes from a primary substance, or tenuity beyond conception, filling all space, the Akasa or luminiferous ether, which is acted upon by the life giving Prana or creative force, calling into existence, in never ending cycles all things and phenomena. The primary substance, thrown into infinitesimal whirls of prodigious

Velocity becomes gross matter; the force subsiding, the motion ceases and matter disappears, reverting to the primary substance.'²⁹

To find out the real significance behind these lines, let us go back to the Concert Hall at the Madison Square Garden in New York. The day was 16 February 1896, and one of the greatest scientific minds the world has ever known was probably listening to a lecture 'The Real and me Apparent Man: wherein Vivekananda said:

We have not yet found that one, by knowing which everything else will be known. We have resolved the whole universe into two components, into what are called matter and energy, or what the ancient philosophers of India called Akasha and Prana. The next step is to resolve this Akasha and me Prana into their origin. Both can be resolved into the still higher entity which is called mind. It is out of mind, the Mahat, the universally existing thought-power, that these two have been

produced. Thought is a still finer manifestation of being than either Akasha or Prana. It is thought that splits itself into these two. The universal thought existed in the beginning, and that manifested, changed, and evolved itself into these two Akasha and Prana: and by the combination of these two the whole universe has been produced.³⁰

The swami would hardly have been surprised at seeing Tesla take recourse to Vedantic truth. In 1897 he said at Kumbakonam: 'It seems to us, and to all who care to know, that the conclusions of modern science are the very conclusions of the Vedanta reached ages ago; only, in modern science they are written in the language of matter' (3.185).

Deeper Connotations

Before concluding let us look at the remarkable roles played by these two brilliant men in one of history's great events: the commemoration of the four-hundredth anniversary of Columbus's reaching America. One had illuminated the World's Fair, officially known as the Columbian Exposition, with his electricity. The other had illumined the hearts of his listeners with truth imbibed through Vedanta at the Parliament of Religions, which was a part of the exposition.

The immensity of the World's Fair has been thus described:

The Fair was supposed to open in 1892, the 400th anniversary of Christopher Columbus' arrival in the continent. It was dedicated on October 21, 1892, but actually opened on May 1, 1893. 'Over its 179-day run, attendance at the fair totalled 2,752,940, or more than one hundred fifty thousand people a day ... even after multiple visits were accounted for, it was estimated that about twelve million people took part-this in a nation with a total population of about sixty-three million: ...

The fair had given bigness a new meaning. To see everything in the fair, even in a hurried manner, a visitor had to spend about 3 weeks and walk 150 miles.³¹

And about the illuminative role played by Nikola Tesla in this mammoth arrangement, the biography of George Westinghouse says:

The best result of the Columbian Exposition of 1893 was that it removed the last serious doubt of the usefulness to mankind of the polyphase alternating current. The conclusive demonstration at Niagara was yet to be made, but the World's Fair clinched the fact that it would be made, and so it marked an epoch in industrial history. Very few of those who looked at this machinery, who gazed with admiration at the great switchboard, so ingenious and complete, and who saw the beautiful lighting effects could have realized that they were living in an historical moment, that they were looking at the beginning of a revolution.³²

Representatives from different religions around the globe had come to the Parliament of Religions to expound their respective faiths; and Vivekananda was one of these august representatives. The *Critic* of 7 October 1893 noted: 'No one expressed so well the spirit of the parliament, its limitations and its finest influence, as did the Hindoo monk.'³³ Margaret Elizabeth Noble, better known as Sister Nivedita, later elaborated:

IEEE DELHI SECTION MEMBERSHIP STATISTICS AT A GLANCE

IEEE Delhi Section has as per **latest (January 04, 2021)** statistics **4034 active Members (including 23 Society Affiliates)**, consisting of **0 Honorary Member, 7 Life Fellow, 7 Fellow, 33 Life Senior, 434 Senior Member, 7 Life Member, 1330 Member, 25 Associate Member, 681 Graduate Student Member, 1486 Student Member, 1 SA.**