



# IAStructE

# news letter

**Newsletter of the Indian Association of Structural Engineers  
August 2019**

## Message from the President



Dear Members,

This is the time of the year when we have faced the monsoon season, which had slowly knocked at our doors, with gusts of wind, thunder and the cool breeze sweeping the moist, humid summer days. After the torrid summer has scorched the earth, the pitter patter of rain drops does have a soothing effect in our minds and hearts.

While the poet in me enjoys this season, I do get worried at times when I wear the Civil Engineering hat. Floods are very usual in India around this time of the year since we receive large amount of rainfall in four months. The state of Assam, Bihar, West Bengal, Uttar Pradesh, Uttarakhand, and Himachal Pradesh are mainly affected by yearly floods. The fury of mighty river Brahmaputra is invincible in north-east. In other northern states, river Ganga and its tributaries, river Kosi in Bihar are untameable. We Civil Engineers are having to adapt to a world where “extreme” weather events are becoming increasingly normal. We need to think as to how might engineers help prevent or lessen the impact of a flood in our community.

This month, we had a very useful & productive meeting of the Governing Council on 10th August 2019. It is very heartening to note the enthusiasm of GC members in activities. Many constructive suggestions were made by various members of GC to raise the professional standards of Structural Engineers in the country, in order to secure a safe and resilient built environment for all. Several important initiatives taken to deal with professional issues concerning member structural engineers. Members also identified CPD courses for young engineers and given concrete shape to a couple of refresher courses on various topics of current interest. The refresher course on “Application of New Seismic Code for Highway Bridges” already commenced on 24th August 2019 with Prof. Mahesh Tandon taking lead as course co-ordinator. The overwhelming response from the structural engineering fraternity to participate in this course is very heartening. We have more than 90 registered participants for this course. The course will continue till 28th September (Every Saturday). The second refresher course on “Performance Based Design of Buildings and Bridges” is going to commence on 14th September with Er. Vipul Ahuja as the course co-ordinator. This course will continue till 19th October 2019.

After a lot of effort from our editorial team led by Dr S Chatterjee, I am pleased to announce that the quarterly journal “Structural Engineering Digest (April - June 2019 issue) of IAStructE is now available (in electronic form) for the members. I request all members to read this journal and give us feedback for improvement. The Editorial Team is now in the progress of finalizing the contents of the next issue of SED (i.e. July -September 2019 issue). Members who are willing to contribute any technical paper, case study or any research findings in the forthcoming issue of the journal, may please contact the secretariat and submit the paper to us.

Happy Reading!

(AlokBhowmick)

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## Member Demise



**'Padmashree' Dr. Anand Swarup Arya passed away on 01 September 2019.**

Late Shri Dr. Anand Swarup Arya was closely associated with the Indian Association of Structural Engineers since its inception. He was the Honorary Fellow of IAStructE and actively participated in the events organized by IAStructE.

Dr. Anand Swarup Arya was born on June 16, 1931 at Ambehata in district Saharanpur, U.P. Dr. Arya served University of Roorkee in Civil and Earthquake Engineering faculties for 36 years and Retired as Professor of Earthquake Engineering and Pro-Vice Chancellor in 1989. At age on 86 years, Dr. Arya retired as Member BSDMA (with Status of Minister of State, Govt. of Bihar). Dr. Arya was a Professor Emeritus of Earthquake Engineering, I.I.T. Roorkee, Ex-Chairman (1991-2010) Member of Bureau of Indian Standards Committee, CED 39 on Earthquake Engineering Codes, and Consultant to BMTPC (Building Materials & Technology Promotion Council) Ministry of Urban Affairs, Govt. of India. He had served as Member, UN Scientific & Technical Committee of IDNDR 1990-1999; Member, Working Group of National Committee on Disaster Management appointed by Govt. of India (1998-2001); Seismic Advisor to Gujarat State Disaster Management Authority, Govt. of Gujarat, 2001-2003, where he guided the reconstruction works of more than 200,000 houses and retrofitting of hospitals, and Government buildings after the Kachchh earthquake; Consultant to United Nations Centre for Regional Development, Japan, on School Earthquake Safety Project in the Asia Pacific Region; and National Seismic Advisor, Ministry of Home Affairs, Government of India, on GOI-UNDP Earthquake Vulnerability Reduction Project (2003-2009).

Dr. Arya has been honored with Life -Time Contribution Awards by the Indian Concrete Institute and the Indian National Academy of Engineering; the Distinguished Alumnus Award by the University of Illinois, USA, and the IIT-Roorkee; and the first India Disaster Management Congress' 'Disaster Mitigation Award' given by the Prime Minister of India in Nov. 2006. He also received the National honor award, Padmashree, given by the President of India in 2002.

His contribution to the engineering profession was enormous. May his Soul Rest in Peace.

The prayer meeting of (Late) 'Padmashree' Dr. Anand Swarup Arya will be held at 3:00 PM onwards on 08 September 2019 at Awas Vikas Convention Center, Madan Mohan Malviya Marg, Sector 16, Vasundhara, Ghaziabad, Uttar Pradesh 201010.

## Member Achievement

**Mr Sushil K. Dhawan, Life Fellow IAStructE & Former Chief Engineer, CPWD conferred lifetime achievement award**



Mr Sushil K. Dhawan, Life Fellow IAStructE & Former Chief Engineer, CPWD recently completed his PhD from IIT Delhi at the age of 77. Mr Dhawan a great source of inspiration for the young generation as he has shown that learning is a life time process. There is no age bar for gaining knowledge. Mr. Dhawan is being conferred lifetime achievement award for his wonderful journey in academics as well as career.

Due to financial problems in the family, he had to take up job at the age of 18 after passing the course of draftsman. Undeterred by harsh circumstances, he enhanced his qualifications by studying for AMIE and became graduate Junior Engineer in 1965. He started preparing for India Engineering Services Exams and joined Class 1 service after passing 1971 examination.

Now he had a good career before him but he was not complacent. He wanted to achieve something more. His insatiable urge for knowledge made him register for M.Tech. in IIT, Delhi as part time student and he passed his M.Tech. with distinction in 1982 along with his job. Further, he did his Masters in Management of Urban Development from Birmingham University, U.K. He also passed Masters in Public Administration from the Institute of Public Administration and M.Phil. in Project Management from Panjab University. Now at the age of 77, he has obtained Ph.D from IIT, Delhi.

His career is also equally illustrious. He has been responsible for planning, design and construction of building roads and bridges in various parts of the country including North East where he was responsible for the first RCC bridge in Lohit district and also a micro Hydel project. He worked as housing expert under Indian Technical Cooperation Programme in Ethiopia. Working as Chief Engineer Valuation at Chennai, he Prepared the guidelines for valuing immovable properties. During 2001-2002, he worked as Member of the Appropriate Authority, Income tax with quasi-judicial functions.

After retirement, he has been delivering lectures in various engineering institutes on safety of structures, sustainability, project management and arbitration. He is also Court Commissioner and Arbitrator in Delhi High Court. He is Member of the Dispute resolution board. He is the Chairman of the professional development and Member of the Governing Council in Indian Association of Structural Engineers. He has presented various research papers in National and International seminars in the last five years. He is the Fellow Member of the Institution of Engineers, Indian Institute of Bridge Engineering, Indian Concrete Institute and Indian Association of Structural Engineers. He is Life Member of Indo Geotechnical Society, Indian Institute of Public administration, Association of British Scholars and member of American society of Civil Engineers.

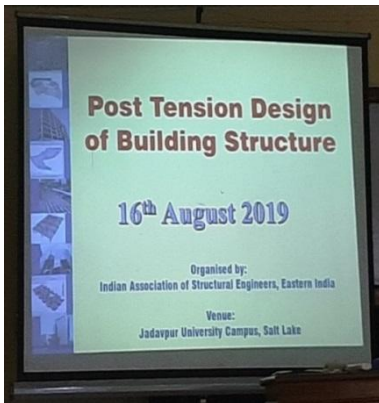
He received various awards for his achievements. He received Bharat Jyoti Award from India international Friendship Society in December 2015. He got Alumnus Award from the Institution of Engineers in December,

2016. He was given Rashtriya Gaurav Award for his excellent achievements in March,2016 by India international Friendship Society

The IAStructE fraternity joins together to applaud him for the great achievement and example that he has set for young engineers.

## Technical Lectures

IAStructE Eastern Region organized the technical lecture on Post Tension Design on Building Structure by Mr. ParthaPratim Roy, Member IAStructE& Sr. Vice President - ADAPT Structural Concrete Software on 16th August 2019 at Kolkata



*Title Slide of the Technical Lecture (left);*

*Dr. K. K. Ganguly (Vice President, IAStructE East) addresses to the august gathering while Mr. ParthaPratim Roy & Prof. Dr. S. Saraswati (Faculty, JU) looks on (right).*



It is often said that the Eastern Region of IAStructE is relieved from any activities. However, on 16th August, 2019 on the initiative of Dr. K. K. Ganguly (Vice President-IAStructE, Eastern Region) in the Seminar Hall of Jadavpur University's Construction Engineering Department, a Technical Lecture was held from 5.15PM to 7.15PM. It was attended by the Faculty Members & Students of Construction Engineering Department, JU. Power Point Presentation was provided by Mr. Partha Pratim Roy (Sr. Vice President - ADAPT Structural Concrete Software) who is BE in Civil; ME in Structure from Bengal Engineering College, Shibpur (now IEST, Shibpur) and also Recipient of National Design Award in Prestressed Concrete from NDRF, IEI (India) at 32nd IEC at Chennai, in December 2017. Mr. Roy elucidated through his slides the various facets of Pre Stressed Concrete and also deliberated his actual work experience in various sites of India and abroad, on Pre Stressed Concrete (PSC). He reported that though Western and Southern regions were adept in absorbing new technologies like PSC, Eastern and Northern region lagged. Tea and Snacks were served to all at the end of the meeting.



*Bottom Row-From left: Mrs. Anindita Ghosh Bose (Dy. General Manager - ADAPT Structural Concrete Software), Prof. Dr. S. Saraswati, Prof. Dr. K. K. Ganguly, Prof. Dr. D. Banerjee (HOD, Const.Engg), Prof. Dr. D. Mazumder, Prof. K. Banerjee & Prof. Dr. Vr. Mainak Ghosal (MIAStructE) & Mr. Partha Pratim Roy (in Red Tie). Top Row-Students of Construction Engineering Department, JU.*

Technical Lecture by Dr. Naveen B. P., Associate Professor, Civil Engg. Department, Amity University, Haryana on the topic “Field test and Simulation of Large Diameter Vertical Loaded Pile in Residual soils” organized on 22nd August 2019 at New Delhi



*Technical lecture by Dr. Naveen B.P.*

Technical lecture and discussion on “Diaphragm wall - Design, Execution & Analytical approach” on 24th August 2019 at Ahmedabad organized by IAStructE Gujarat State Centre

IAStructE Gujarat State Centre in association with Ambuja cement and SETU Foundations organized technical discussion on the subject “Diaphragm wall - Design, Execution & Analytical approach\* on 24th August-2019 at Ahmedabad. The sessions were conducted by Dr. R. Sundaravadivelu (IIT-Madras) & Dr. Shailesh Gandhi (Director SVNIT-Surat). Participants (60+) were mix of structural engineers and geo-technical engineers. The sessions were highly interactive and the practical difficulties on the subject were discussed & debated.



*Participants of the session on Diaphragm wall*

### Ongoing event

**Refresher Course on "Application of New Seismic Code for Highway Bridges - IRC:SP:114-2018"**

The Refresher Course on "Application of New Seismic Code for Highway Bridges - IRC:SP:114-2018" has been launched on 24th August 2019 at PHD Chamber of Commerce & Industry, New Delhi in the presence of Mr A. K. Banerjee, Convenor, B-2 Committee (IRC). The course is sponsored by Sanfield (India) Ltd. The course will continue till 28th September 2019. The lectures are being held on every Saturday morning from 09:00 AM to 01:15 PM. Prof Mahesh Tandon, Past President & GC member IAStructE is the Course Coordinator. 90 delegates have been registered for participating in the course.

The following speakers have made their presentations on the 1st day of the course:

- Mr. A. K. Banerjee, Convenor, B-2 Committee (IRC)
- Prof. Mahesh Tandon, MD- Tandon Consultants Pvt Ltd
- Dr. S. K. Thakkar, Former Professor, Earthquake Engineering and Railway Chair Professor in Bridge Engineering at IIT Roorkee



*Participants of the refresher course*

## Forthcoming events

### Refresher Course on performance Based Design for Buildings & Bridges

IAStructE is organizing Refresher Course on "Refresher course on Performance Based Design for Buildings & Bridges" starting from 14th September 2019, which will be concluded on 19th October 2019. The lectures will be held on every Saturday at PHD Chamber of Commerce & Industry, PHD House, 4/2 Siri Institutional Area, August Kranti Marg, New Delhi 110016. Course participation fee shall be Rs. 7,500/- for IAStructE members, Rs.10,000/- for non-members and Rs 5,000/- for Students. The GST @ 18% will be applicable on the Registration fee. In view of limited seats, please send your nomination at the earliest possible. Please note that the registration shall be done on first come first serve basis. For any clarification please contact Mr. VikasVerma, Manager IAStructE, Tel: 011-45794829, Email: [iastructe@gmail.com](mailto:iastructe@gmail.com). Please click the following link for downloading the Announcement, Flier & Lecture schedule <http://iastructe.co.in/Announcement-Refresher-Course.pdf>

### International Seminar on "Performance Based Design of Buildings & Bridges for Enhanced Seismic Resilience"

International Seminar on "Performance Based Design of Buildings & Bridges for Enhanced Seismic Resilience" scheduled to be held 8-9 November 2019 at New Delhi. Details shall be announced soon.

## Call for articles

The Chairman and other members of the SED Editorial Board invite article contributions for the quarterly journal of the Indian Association of Structural Engineers, the Structural Engineering Digest.

Write to [iastructe@gmail.com](mailto:iastructe@gmail.com) for

- ✚ Journal subscription
- ✚ Article Submission
- ✚ Sponsored Advertisement

Deadline for submission in next issue: 1<sup>st</sup> Nov. 2019

Submission template and ethics statement can be availed by emailing [iastructe@gmail.com](mailto:iastructe@gmail.com).

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## The Structural/Architectural Conundrum

As I went through the June newsletter of IAStructE, I stumbled upon a paragraph in the President's message to the members of the association. He wrote about the declining trend in the number of 'structural engineers of professional standing' and young civil engineering graduates moving towards higher paying professions like IT, computer science etc. In the last couple of years in Delhi, I have come across several young practicing engineers who have echoed a similar sentiment. Another major grievance is that it's the architects who take away a larger share of the financial reward and acclaim. Was it always like this? How did we get here? Why is an architect's service valued more than an engineer's? Most writing about structural engineering revolves around technical issues. Little space is given to the non-technical matters faced by people associated with the profession on a daily basis. The purpose of the article is to draw attention to such non-technical challenges.

In one of his interviews, popular author and MP, Dr Shashi Tharoor quipped, "If we do not know where we come from, we won't know where we are going". History often provides clues to some of the protruding questions of our times. The textbook by Malcolm Millais, 'Building Structures - Understanding the Basics' offers some insight into the history of the profession - "Up to the end of 18th century, architects, or surveyors, as they were often called, were solely responsible for all aspects of building design. The term engineer was reserved for members of army engineering corps". He reveals that the line between architects and military engineers was not firmly drawn with each, often performing the task of the other. His claims are reinforced by the fact that several joint bodies of architects and engineers including American Society of Civil Engineers and Architects, existed until mid-19th century.

However, over time, the role of engineer and architect has become mutually exclusive. One of the primary reasons for this division was the development of mathematically based theory of structural behavior. While the engineer's training programme became heavily based on theoretically based calculation procedures, the architect drifted in the opposite direction. Hence, the idea that the primary structure can be viewed conceptually as a separate entity is relatively recent, around the end of 19th century.

Today, the primary structure is mostly conceived from two different points of view. The architectural vision is based on a visual or sculptural understanding, often poorly informed by a real understanding of structural behavior. The Engineer's vision, on the other hand, is focused on providing direct load path at the lowest cost with no role in the aesthetic aspects. This is far from an ideal arrangement, and it has had, and continues to have, technical and financial problems with many projects. A famous example is the Sydney Opera House which ran into several delays as basic ideas of structural behavior were ignored in the initial conceptual design stage. This situation can only improve when everybody involved in the design process has a sufficient understanding of both technical and aesthetic aspects.

The problems caused by an ill-conceived, architect-led structural concept is faced by us on a regular basis. Let us delve into the consequences of an engineer's ignorance of modern architectural ideas. What encompasses the ideals of architecture? In my search for an answer, I came across an interview of the Pritzker awardee, MrBalkrishnaDoshi. In the interview, he said, "The ultimate purpose of architecture is to touch the human psyche; to create buildings that evoke certain feelings". Can structural engineers play a role in fulfilling this purpose? Or should this responsibility be the exclusive domain of an architect? Are we paying a heavy price by ignoring architectural principles, in exchange for the mathematical rigour of the subject? Is it possible to find a balance between the two apparently contradicting fields?

Another area of concern is strengthening communication links with public. Most professionals including doctors, lawyers and even architects deal directly with the public on a daily basis. Structural engineers, on the other hand, in most of the projects, deal only with either architects or government authorities, as a result of them being relegated to a secondary position in a design team. This 'isolationist policy' has proven costly for the profession, as it is the public that resides at the heart of any profession. Its consequence is



experienced by us in our everyday interactions where we struggle to explain to a layman what a structural engineer's job entails. Most are oblivious to the existence of such a profession. Forums like IAStructE could make significant contributions in this direction by opening doors of its seminars to not just engineers, but also architects and builders in particular and the public in general. Young school students could be introduced to the fascinating world of structures. Our efforts should aim at strengthening our ties with the people by making the subject comprehensible to them rather than masking it under the garb of complex terminologies.



*Piyush Sharma, Structural Engineer, Integra Ventures*

*Mr Piyush completed his B.Tech from NTU Singapore. After working for a year as a site engineer, he went on to do his M.Tech in Earthquake Engineering from Imperial College London. He is currently working with a healthcare consultancy firm - Integra Ventures. The firm specializes in the planning, designing and commissioning of health care facilities. The structural Engineering team at Integra is involved in the structural design and assessment of new and existing hospitals.*

## A Poem: "The Engineer"

### THE ENGINEER

It's a cold hard fact  
Difficult to assimilate  
In how many hearts, I wonder  
Does this feeling, resonate?

The pull of a bridge, particularly  
One that's under construction  
Is way more than that exerted by  
The biological urge of a fatal attraction

At the close of a hectic Conference on Bridges  
She looked forward to time alone with him  
She'd have his undivided attention  
He'd lend credence to her whims.

A Utopian dream, this proved to be  
In the face of a last minute invitation  
To visit the site of a prestigious project  
On the way to the airport, a 5-minute diversion.

The gleam in his eyes spoke volumes,  
Would she deny him this opportunity?  
She knew when she was bested  
She acquiesced gracefully.

The site visit was accomplished  
Time flew on golden wings,  
So what if serpentine queues at the airport  
Did not feature in his scheme of things?

The flight back was uneventful,  
They were seated separately  
She made do with paper book romance  
He dreamed of the Bridge on the River Zuari.

### HAPPY ENGINEER'S DAY

*The poem has been penned down by Mrs. RanjanaTandon w/o Prof. Mahesh Tandon, Past President & GC member IAStructE. The IAStructE fraternity thanks her for her beautiful contribution.*

## New IAStructE members

### “MEMBER” Grade Members

M/S No	Name	Designation, Organization	City
M-281	Ms. Harshada Sharma	Former Associate Prof. IPEC, Pursuing PhD, IIT Delhi	Delhi
M-282	Prof. Sakthivel Ramanathan	Partner SK Consulting Engineers & Associate Professor at Fatima Michael College of Engg. & Tech.	Madurai
M-283	Mr. Anand Rajendra Shah	Managing Director DELF Consulting Engineers (I) Pvt Ltd	Ahmedabad

### “ASSOCIATE MEMBER” Grade Members

M/S No	Name	Designation, Organization	City
AM-288	Mr. Nishith Margesh Mehta	Structural Engineer	Ahmedabad
AM-289	Mr. Shanawaz. M. Kathewadi	Proprietor - KBN Associates	Hubli (Karnataka)
AM-290	Mr. Anand Dipak Mistry	Structural Engineer	Ahmedabad

### “STUDENT MEMBER” Grade Members

M/S No	Name	Designation, Organization	City
S-382	Mr. Mohan Sai Pallem	Lovely Professional University	Punjab
S-383	Mr. Behzad Bilal Bhat	Lovely Professional University	Punjab
S-384	Mr. Uman Haroon Bhat	Lovely Professional University	Punjab
S-385	Mr. Akshat Gupta	Lovely Professional University	Punjab
S-386	Ms. Tshering C Dorji	Lovely Professional University	Punjab
S-387	M. Navin Acharya	Lovely Professional University	Punjab
S-388	Mr. K Muthuraj	Lovely Professional University	Punjab
S-389	Mr. Sachin Tiwari	GautamBudhaUniveristy	Noida
S-390	Ms. Kusum Saini	IIT Delhi	Delhi
S-391	Mr. Shamsuddin Khan	Sharda Unviersity	Noida
S-392	Mr. ParmenderChaurasia	Skyline Institute of Engg& Tech.	Noida
S-393	Mr. IndusekharDevarasetti	Aditya Institute of Technology & Management	Andhra Pradesh
S-394	Mr. D. Prudhvi Raju	Aditya Institute of Technology & Management	Andhra Pradesh
S-395	Mr Allu Manikanta	Aditya Institute of Technology & Management	Andhra Pradesh
S-396	Mr. Prajapati M Bhalabhai	C. S. Patel Institute of Technology	Anand, Gujarat

## About IAStructE

The Indian Association of Structural Engineers (IAStructE) is the national apex body of structural engineers in India established with the objective to cater to the overall professional needs of structural engineers. The association has become the source of expertise and information concerning all issues that involve structural engineering and public safety within the built environment. It has no commercial aim or objective. IAStructE is purely a professional learned society with the prime objective of supporting and protecting the profession of structural engineering by upholding professional standards and acting as a mouthpiece for structural engineers. IAStructE endeavors to ensure that its members develop the necessary skill in structural engineering and work to the highest standards by maintaining a commitment to professional ethics and standards within structural engineering. IAStructE strives for continued technical excellence; advancing safety and innovation across the built environment. It also strives to make available to the Government, Public Sector and Private Sector - a credible source of well qualified and experienced Structural Engineers. A nationwide database of Structural Engineers has been compiled and is being constantly updated. IAStructE undertakes a broad range of technical activities which are aimed at information sharing and capacity building. The association provides opportunity for all the members to develop various skills in structural engineering and helps members to be at the forefront of structural engineering practice. Towards achievement of its aims and objectives, IAStructE is engaged in organizing the following: CPD Courses for Professionals at all levels Refresher Courses for Fresh Graduate Engineers, Student's orientation program, Seminars/Workshops, Technical Lectures by Experts, Technical Discussions on Contentious Issues. IAStructE is currently operating from four regional centers. These regional centers located in the Eastern, Western, Northern and Southern parts of the country effectively cater to the professional needs of members residing/practicing all over the country.

## How to become a member?

Membership form and details are available at <http://www.iastructe.co.in/membership-form.html>  
For membership information and other details contact the Indian Association of Structural Engineers Secretariat.

## Membership Benefits

Membership of IAStructE is a sought after professional accreditation. Your membership of IAStructE can help you enhance your intellectual, academic, technical and professional status. It provides inter connectivity to the fellow professionals and the fraternity. Some of the benefits of membership is provided below:

- ✚ Complimentary magazine subscription: All members (except Student Members) receive a complimentary subscription to the Institution's flagship publication 'Structural Engineering Digest' (SED). Published quarterly, each issue allows members to remain connected to the association through the provision of technical papers, Industry and Institution News, Featured articles, Professional Guidance on everyday matters affecting the practicing structural engineers. [Released]
- ✚ Access to all Technical Lectures, organized every month, at no charge
- ✚ Access to Technical Discussions held regularly
- ✚ Access to the association's library (Including e-library)
- ✚ Discounts in attending Seminars and Workshops organized by the association
- ✚ Full on-line access to the current volume and entire e-archive of journal "Structural Engineering Digest (SED)", Refresher Course Materials, Technical Lectures E-Newsletters and other Technical Resources of the Association.
- ✚ Opportunity to network with professional structural engineers of eminence and to meet potential employers in the association.
- ✚ Opportunities for professional development

## IAStructE Secretariat

Indian Association of Structural Engineers

K-69A , Basement, Kalkaji, New Delhi 110019