

# The Midtowner

Bulletin of Rotary Club of Chandigarh Midtown: R.I. District 3080

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Editor  
**Dr. V. J. S. Vohra**

Volume XXXVII No. 04 Dated: July 24, 2012

## PROGRAMME

Prime Minister's Concern - One Rank One Pension for Defence Personnel

*Guest Speaker:* Dr. Col. (Retd.) P.K. Vasudeva

Sr. Professor, Rajiv Gandhi Foundation

Friday, July 27, 2012

Time: 7.00 p.m.

Venue: Hotel President, Sector 26, Chandigarh

## Discovery of GOD Particle

In the club meeting on July 20, 2012 Guest Speaker Prof. Dr. Suman Beri, Professor Emeritus, Physics Department, Panjab University, Chandigarh was introduced by PP Rtn. Gurdip S. Deep. Dr. Suman Beri is the first women to get Ph.D in field of cosmic rays from Physics Department of Panjab University and



*Prof. Dr. Suman Beri*

has 500 research papers published in International journals. She was also awarded Best Citizen of India by International Publishing House. She has teaching and research experience of more than 38 years, and is known to her students as an inspiring and meticulous teacher. She has been visiting Fermi Lab, USA and CERN, Geneva since last

decade. She has carried out research in various leading national and international institutes and she was also in the team of scientists responsible for the discovery of TOP Quark. She has guided a number of M.Phil and Ph.D students. She is the Principal Investigator of the eight crore project of LHC and Grid Computing from Department of Science and Technology, Govt. of India.

In an interesting multimedia presentation Dr. Suman stated that in particle physics, elementary particles and forces give rise to the world around us. Physicists explain the behaviours of these particles and how they interact using the Standard Model, a widely accepted framework believed to explain most of the world we see around us.

The Higgs particles traces back to 1964, when several physicists independently dreamed up the idea of an energy field that would have permeated the early universe.

She explained that in certain theoretical calculations, particles with zero mass kept inconveniently popping up. In trying to get rid of those particles, Higgs, Hagen and others realized that once the universe cooled enough from its initial Big Bang, this energy field would have had to emerge. Known as the Higgs field, its

existence also required a new particle — the Higgs boson. Today, CERN scientists hunt the Higgs by smashing two beams of protons together at the \$10 billion LHC. Out of a trillion proton-proton collisions, perhaps one will create a Higgs particle, which then decays almost instantaneously into other particles. Sensitive detectors placed at the sites of these smashups look for signatures of several ways the Higgs might have decayed.

The "God particle" is the nickname of a subatomic particle called the Higgs boson. In layman's terms, different subatomic particles are responsible for giving matter different properties. One of the most mysterious and important properties is mass. Some particles, like protons and neutrons, have mass. Others, like photons, do not. The Higgs boson, or "God particle," is believed to be the particle which gives mass to matter. The "God particle" nickname grew out of the long, drawn-out struggles of physicists to find this elusive piece of the cosmic puzzle.

The "God particle" nickname actually arose when the book *The God Particle: If the Universe is the Answer, What Is the Question?* published in 1993 by Nobel Prize winning Physicist Leon Lederman. Since then, it's taken on a life of its own, in part because of the monumental questions about matter that the God particle might be able to answer. The man who first proposed the Higgs boson's existence, Peter Higgs, isn't all that amused by the nickname "God particle," as he's an avowed atheist. All the same, there isn't really any religious intention behind the nickname.

Lederman said he gave the Higgs boson the nickname "The God Particle" because the particle is so central to the state of physics today, so crucial to our final understanding of the structure of matter, yet so elusive.

Decades after it was proposed, the Higgs emerged in the shards of particle collisions at the world's most powerful accelerator, the Large Hadron Collider at the CERN Geneva. CERN captured the Higgs in two huge experiments, each of which independently reached the gold-standard statistical level for confirming the particle's discovery. In one respect, finding the Higgs simply confirms the standard model, physicists' framework for understanding the particles that make up the universe and the forces that govern them. But the discovery also opens new areas to explore. The standard model predicts that there is an elementary particle, the Higgs boson, which would produce the effect of mass. Confirmation of the Higgs boson would be a major

milestone in our understanding of physics.

The Standard Model also made clear that the Higgs boson would be very difficult to demonstrate. It exists for only a tiny fraction of a second before breaking up into other particles — so quickly that it cannot be directly detected — and can be detected only by identifying the results of its immediate decay and analysing them to show they were probably created from a Higgs boson and not some other source.

The Higgs boson requires so much energy to create (compared to many other fundamental particles) that it also requires a massive particle accelerator to create collisions energetic enough to create it and record the traces of its decay. Given a suitable accelerator and appropriate detectors, scientists can record trillions of particles colliding, analyse the data for collisions likely to be a Higgs boson, and then perform further analysis to test how likely it is that the results combined show a Higgs boson does exist, and that the results are not just due to chance.

Dr. Suman also talked about the Large Hadron Collider (LHC) tunnel – with bending magnets. She detailed explanation for one of the fastest racetracks on the planet, the emptiest space in the solar system, one of the coolest places in the Universe and one of the hottest places in the Galaxy.

She said every day more than 10000 scientists do their work at CERN. Largest and most complex detectors ever built, are used. To select and record the signals from the 600 million proton collisions every second, CERN scientists are building huge detectors to measure the tiny particles to an extraordinary precision.

Dr. Suman said, “There is also anti-matter. For every type of particle there is an antiparticle. But, as far as we can tell, there is virtually no anti-matter naturally existing in our Universe. Particles and antiparticles have opposite electric charge. Talking of the Mystery of Anti-matter, she added, “14 billion years ago the Big Bang created equal amounts of matter and antimatter. We exist because there is no antimatter around. After more than 50 years of research we know that some particles behave slightly differently from their antiparticles. The difference is not enough to explain why the Universe is the way it is. As the LHC will produce equal amounts of matter and anti-matter, studying both in detail may give us further insights.”

She pointed out, “The truth is out there. The CMS Experiment at the Large Hadron Collider brings physics into unexplored territory. New processes and particles could change our understanding of energy, matter and space. We can learn about the basic forces that have shaped our Universe since the beginning of time and that will determine its fate. And you could be part of it all!”

Dr. Suman Beri concluded her presentation by quoting Albert Einstein, “A hundred times everyday, I remind myself that my inner and outer life depended on the labours of other men, Living or dead, and that I must exert myself in order to give in the same measure as I have received and am still receiving.”

This was followed by a lively interactive discussion between Rotarians and Dr. Suman. PP Prof. Dr. S.K. Sharma said, “We are at the threshold of a new world, a new era, as a result of these experiments.” He thanked Prof. Dr. Suman Beri on behalf of all Rotarians for explaining 'God Particle' in a very simple manner.



PP Prof. Dr. S.K. Sharma presents a memento to Prof. Dr. Suman Beri



Secretary Ashok Puri gets punctuality award from Dr. Suman Beri. Looking on is President Ritu Singal

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## H.E. Governor of Punjab appreciates Attitude of Rotary to help and bring Peace in the World

His Excellency Mr. Shivraj V. Patil, the Governor of Punjab and Administrator of Union Territory of Chandigarh, addressing Rotarians on the Installation Ceremony of District Governor Rtn.



H.E. Shivraj V. Patil  
Governor of Punjab

Manmohan Singh on 1<sup>st</sup> July 2012 said, "I am very pleased to be here and I am very happy to see the model of elections of your District Governor where no canvassing is allowed. I think the politicians should model their own elections and learn from you."

Highly appreciating the attitude of Rotary to help others and bring peace in world, H.E. Governor of Punjab made following comments and observations;

"Rotary is an independent non-government organization. United Nations is not so, and it is the governments of various nations who support it and run it. The best part I have realized in Rotary is that it never asks for financial help or for that matter for anything, and instead believes in giving. In my public life I meet numerous people who come asking for something or complaining about this and that. But I have not

found Rotarians complaining against anything. They have positive attitude towards life, and they do not complain but instead come forward to find solution and help"

"Our world has numerous problems. Neither the United Nations or the governments of various nations can resolve them or find solution. But I have seen Rotarians providing solution. It is not possible to solve all problems but whatever is possible they come forward and make it happen."

"Rotarians are complete in themselves, successful and more than anything else, have an attitude to help others. This is the attitude to help others which is required in the world today. They work together as a united force to help others, and if they can do it, others can also do it."

"In order to unite and have peace, this asks for broad-mindedness of people, while the short-sightedness can divide this world. Rotary is trying to unite the world. You represent different communities, cultures and countries, all united to work together. You are united as one force. This attitude of oneness and being helpful to others is an attitude which needs to be inculcated amongst people, and only then we can create a better place."

"Your theme of 'Peace through Service' this year is excellent. But let there be peace in your mind, and we can have peace in the world. I have no doubt that the Rotarians, endowed with the spirit of oneness and the positive attitude of helping others and finding solutions to problems, can bring peace in the world."

## Installation Function gets good Media Coverage

Installation Meeting of President Ritu Singal and her Team 2012-13 on July 13, 2012, received wide media coverage. In the print media it was covered in HT Live Chandigarh, Financial World, Chandigarh Bhaskar, Chandigarh Kesari and Aaj Samaj

Chandigarh. Online it was on Indianewscalling.com and it was also shown on TV on Siti Channel and Fastway. Besides this, it was also posted on Facebook and eFlash Rotary.

## Urgent need to create Pool of Shelter Kits

President Ritu Singal has received a letter from District Governor Manmohan Singh expressing an urgent need to create a pool of Shelter Kits to provide relief to disaster victims across India. In the recent devastating floods in Assam about 1,50,000 people have been affected. The only way to guard against nature's fury is to be prepared and Shelter Kits, containing 52 items, are the best way of providing immediate relief. RI Director Y.P. Das has

proposed to persue Rotary clubs in RI District 3080 to sponsor at least one Shelter Kit each. The plan is to collect sufficient shelter kits to be able to provide relief within 24 to 48 hours. The cost of each shelter kit, which can provide all that a family needs in times of disaster, is Rs. 16,200/- only, which is to be sent in favour of 'Rotary India Humanity Foundation'.

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## Club Assembly on Friday, August 03, 2012

Club Assembly will be held on Friday, August 03, 2012 at 7 pm at Hotel President, Sector 26, Chandigarh. All Directors/Committee Chairmen should come prepared to give presentation of Programs/Projects for RY 2012-13. The Budget will also be presented by the Treasurer.

### India is No. 3 Contributor to TRF

In the Rotary year 2011-12, India has achieved No.3 position in the world with contribution of 14.6 million dollars to The Rotary

Foundation. We should be proud of being Rotarians from India, and should aim to reach the top!

### PDG Shaju Chief Guest at Installation Ceremony of RC Bhakra Nangal



Chief Guest PDG Shaju Peter lights the lamp at the Installation ceremony of Rotary Club Bhakra Nangal on July 14, 2012. Others seen in the picture are (L-R:) Secretary Vikesh Chetal, PP Ashok Minocha, AG Prabhjit Singh, Chairman of Inner Wheel District 308 Brij Parmar, President S.K. Singh and PP Jeevan Sharma

### One of the Rotarians having 100 percent attendance will get this Gift!



This attractive award will be presented by President Ritu Singal to one of the Rotarians having 100 percent attendance during the month. 100 percenters get prepared for this gift. One of them will get it. Good luck to all 100 percenters..... Enjoy and celebrate Rotary!

### Birthday of Spouses

R'ann Archana Mathur

R'ann Rajneet Sandhu

PDG Rtn. Yoginder Diwan



July 27

July 28

July 31

### Birthday of Rotarians

Rtn. Gobind Khandelia

PP Rtn. Dr. V.J.S. Vohra

Rtn. Om Parkash



July 27

July 30

August 02

### Wedding Anniversary

R'ann Neeru & Rtn. Raj K. Khattar

R'ann Dr. Sudha & Rtn. Dr. B.R. Jain

July 29

August 02

### Punctuality Draw

Won by Rtn. Ashok K. Puri

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