



# Bangalore Sahodaya Schools Complex

Website: <http://bangaloresahodaya.org> Email: [bangaloresahodaya@gmail.com](mailto:bangaloresahodaya@gmail.com)

## WORKSHOP FOR PRINCIPALS / VICE PRINCIPALS

**Schools may kindly note that their teachers can attend professional development workshops only after they renew their membership for the academic year 2016- 2017**

### **TOPIC: Leadership in Future Schools**

#### **Details of the workshop:**

**Date:** Tuesday, 4<sup>th</sup> July 2016

**Timings:** Half a day

**Venue:** Delhi Public School, Bangalore North  
35/1A, Sathanur Village, Jala Hobli,  
Bagalur Road, Bangalore North 562149

**Number of participants from each school: One only (Principal or Vice Principal only will be allowed to participate in this workshop)**

**Participation Fee: Rs. 3500/- per participant**

**Kindly note the registration fee need to be paid on the day of the workshop to the host school by cash.**

As the number of participants is limited, Principals are requested to kindly revert and confirm participation by sending the attached filled in registration form by email to us on or before **Thursday, 30<sup>th</sup> June 2016** without fail.

#### **Session Details:**

Registration with Coffee and tea	8 to 8.30 a.m.
Commencement Session I – 9 am to 10.30 am	1.1: The arrival of the 4th Industrial Revolution  1.2: Future Schools: ready for the 4th Industrial Age  1.3: Role of Principals : as transformers of the educational eco-system
Tea and coffee break	10.30 to 11a.m.

Session II: 11a.m to 12.30 p.m.	<p>2.1: Understanding learners: learning styles and strategies</p> <p>2.2: Meaningful learning : what is worth learning and how?</p> <p>2.3: Life-long learning : from Knowledge Worker to learning worker</p>
Lunch – 12.30 pm to 1 pm	LUNCH
<p>Session III – Panel discussion and Q and A session with Principals</p> <p>1 pm to 3.30 pm</p>	<p>A Google form will be opened and Principals can mention their queries regarding academic and administrative issues and the panel of senior Principals will address the same. Please note that these concerns should be given to us earlier so that the panel can be ready with answers and no questions raised on that day will be answered.</p> <p>On the panel:-  Mrs. Deepa Sridhar  Mrs. Manju Arif  Dr. Vasanthi Thiagarajan  Mrs Sreedevi  Mrs. Geetha Basavaraj  Mrs. Suma</p>

## **About the Workshop: Education for the 4th Industrial Age**

### **Program Objectives:**

The main objective of this program is to draw attention to the imminent disruption that is about to take place in the way we will live, work and learn because of the exponential rates of change in technologies and their intersections.

This has been dubbed as the 4th Industrial Revolution by Klaus Schwab at the World Economic Forum in January 2016 : <https://youtu.be/khjY5LWF3tg>

The educators are by and large unaware of both the huge impact of this and the great urgency of responding to this and preparing for the future : the 4th Industrial Age.

The right education preparing our youth to lead, prosper and flourish in the 4th Industrial Age has to be designed and implemented using the same technologies that are the challengers to the unprepared.

**Broad structure:**

The program is designed as 2 sessions of about 90 minutes each with a break of about 30 minutes in between.

In the first session, the evolution of the Industrial Age is explained and the need for Schools to be future ready as well as to empower the Principals leading by the front the charge into the future. The 1st Industrial Revolution began around 1784 driven by steam and mechanical devices, the 2nd one around 1870 driven by electricity & mass production and the last one, the 3rd around 1970 driven by electronics, IT & automation. The fourth Industrial revolution became visible around 2015: driven by breakthroughs in fields such as artificial intelligence, robotics, the Internet of Things, autonomous vehicles, 3-D printing, nanotechnology, biotechnology, materials science, energy storage, and quantum computing

Future ready Schools have to constantly evolve and develop a highly skilled and motivated workforce that is well led and effectively deployed to provide an excellent personalised education and the right environment.

Principals are the most important agents of change and transition of the educational system. This segment discusses the personal attributes of leadership, the ICT skills and competencies and the awareness of new Pedagogies that will allow the teens formation to happen on the ground.

In the 2nd session after the break, attention is drawn towards understanding the learner attributes and learning styles to design a learning environment that is conducive to developing the most important qualities expected in a future ready learner. Attention will be drawn to what educational thought leaders have identified as the success skills of the future. The session concludes with a very important message of life-long learning and that future opportunities exist more for the perpetual learner and knowledge seeker than a mere knowledge worker.

**Resources:**

Participants have to go through the materials before they come for the workshop.

Ten recommended Resources to be perused in advance ( as in Flipped Learning) before coming in person to the workshop on Education in the 4th Industrial Age on the 4th July 2016.

**Background :** We are being hurled into the 4th Industrial Age, and to quote from the very first of the following resource list we are 'sleepwalking'.

"We are sleepwalking- Government, Schools and Universities-into the biggest potential disaster of modern times": Sir Anthony Seldon, Vice-Chancellor of the University of Buckingham

Professor David Deming at the Harvard Graduate School of Education, has argued that the very skills prioritised by linear thinking Schools and Universities are precisely the ones that algorithms are able to perform much quicker, more profoundly and reliably than humans.

There should be a sense of urgency in preparing our youth for the future, which has been described in the 8th report listed here as an 'avalanche'. We may call it a cyclone, a tsunami, an earthquake whatever metaphor we prefer, but we have to respond. Burying our head like an Ostrich is not an adequate response. Rather like the Giraffe we have to stretch our necks to see more of the emerging scene and then take a call.

In preserving the status quo, our actions are reminiscent of an anecdote attributed to the famous economist Milton Friedman, quoted below where he sarcastically and brutally draws attention to the real goal of a program "building a canal or providing subsidised employment".

This quotation is usually coupled with a colorful anecdote, but the details of the stories vary greatly. Here is an account from the economics writer Stephen Moore that was printed in the Wall Street Journal in 2009. Moore stated that he used to visit Milton Friedman and his wife, and together they would dine at a favorite Chinese restaurant:

At one of our dinners, Milton recalled traveling to an Asian country in the 1960s and visiting a worksite where a new canal was being built. He was shocked to see that, instead of modern tractors and earth movers, the workers had shovels. He asked why there were so few machines. The government bureaucrat explained: "You don't understand. This is a jobs program." To which Milton replied: "Oh, I thought you were trying to build a canal. If it's jobs you want, then you should give these workers spoons, not shovels."

Do we want to educate our youth or preserve the existing establishment? The responsibility for the right path is upon the shoulders of the Innovative Educator. This is the species that will most likely flourish in the future when the dinosaurs of the existing education system will become extinct.

Please read on to appreciate what's coming soon, and very near you:

1: The Digital Revolution: The impact of the 4th Industrial Revolution on Employment and Education :

[http://www.edge.co.uk/media/193777/digital\\_revolution\\_web\\_version.pdf](http://www.edge.co.uk/media/193777/digital_revolution_web_version.pdf)

2. The Sabre Tooth Curriculum:

<http://www.nassauboces.org/cms/lib5/ny18000988/centricity/domain/57/thesabertoothcurriculumshort.pdf>

3: Every curriculum tells a story: The Dragon Slayer curriculum :

<http://www.socraticarts.com/docs/sccwhitepaper.pdf>

4: Innovative Pedagogy reports : 2013,2014 and 2015:

4.1:[http://www.open.ac.uk/iet/main/sites/www.open.ac.uk.iet.main/files/files/ecms/web-content/Innovating\\_Pedagogy\\_report\\_2013.pdf](http://www.open.ac.uk/iet/main/sites/www.open.ac.uk.iet.main/files/files/ecms/web-content/Innovating_Pedagogy_report_2013.pdf)

4.2:[http://www.openuniversity.edu/sites/www.openuniversity.edu/files/The\\_Open\\_University\\_Innovating\\_Pedagogy\\_2014\\_0.pdf](http://www.openuniversity.edu/sites/www.openuniversity.edu/files/The_Open_University_Innovating_Pedagogy_2014_0.pdf)

4.3:[http://proxima.iet.open.ac.uk/public/innovating\\_pedagogy\\_2015.pdf](http://proxima.iet.open.ac.uk/public/innovating_pedagogy_2015.pdf)

5: Say Goodbye to Knowledge workers and welcome to learning workers : <http://www.forbes.com/sites/jacobmorgan/2016/06/07/say-goodbye-to-knowledge-workers-and-welcome-to-learning-workers/#61182d4b4398>

6: What's worth learning in School?

<http://www.gse.harvard.edu/news/ed/15/01/whats-worth-learning-school>

7: Sir John Gurdon Nobel Prize winner was too stupid for Science at School:

<http://www.telegraph.co.uk/news/science/science-news/9594351/Sir-John-Gurdon-Nobel-Prize-winner-was-too-stupid-for-science-at-school.html>

8: An avalanche is coming : <https://www.pearson.com/avalanche.html>

9: Keynote by Stephen Downes on the six major features of emerging online learning : available at

<http://www.downes.ca/files/slides/2016%2006%2008%20-%20MtAllison.pptx>

10: Education in the 4th Industrial Revolution: in 3 parts

10.1: <http://www.21stcentech.com/education-4th-industrial-revolution/>

10.2: <http://www.21stcentech.com/education-4th-industrial-revolution-part-2/>

10.3: <http://www.21stcentech.com/education-4th-industrial-revolution-p3/>

### **Profile of the Speaker**

Prof. M.M. Pant ( [www.mmpant.net](http://www.mmpant.net) and [mmpant.wordpress.com](http://mmpant.wordpress.com) ) is a Ph.D. in Computational Physics ( IIT, Roorkee), with a Professional Law degree ( Kanpur University) and pursues pedagogy, technology, curricula and entrepreneurial models for disruptively transforming education.

He has been a Pro-Vice Chancellor, Indira Gandhi National Open University (IGNOU), faculty at IIT Kanpur, MNNIT Allahabad and Visiting Faculty, University of Western Ontario, Canada, and a Visiting Scientist at research centres in Italy, England, Germany and Sweden.

He has been a member of the Board of Governors of IIT Delhi and on various committees of academic bodies such as CBSE, NIOS, NCERT, UGC, CEC, NUEPA, NCTE.

Building on almost 5 decades of academic experience, he is now evangelising new learning approaches such as OERs, MOOCs, Flipped Learning, Personal Learning Environments, Computing Fluency including Computational Thinking, Computer Based Maths, Tinkering, Making and Coding for everyone. He is promoting teaching entrepreneurship at School level, and exhorting Teachers to transform to Independent Educators. This ensemble of efforts is labelled as "Learning 221: Learning for the 2nd Decade of the 21st Century".

He believes that the purpose of using technology in education is to go beyond the initial phase of being a 'broadcast' tool to a 'data driven learning model' that helps every learner become a better self-directed autonomous learner, every teacher a transformational inspirational educator and every parent an informed enlightened parent who can mould the cognitive and emotional development of their children.

He is also a promoter of mobile life-long learning ([mmpant.wordpress.com](http://mmpant.wordpress.com)) with an initiative of '2nd Innings: learning opportunities for the 40+', and a pool of 108 course units organised as 18 tracks that run as weekly programs run entirely on WhatsApp.

For achieving this, we need to form an enlightened entrepreneurial community (SMILE at [Meetup.com](http://Meetup.com)) connected with new age tools (Mobile First, Wearable Next) that will make the 'phase transition' to the new model. And the tipping point is the coming 3 to 5 years.

Apart from being a sought after speaker in the national circuit, he has been invited to deliver keynotes during the last few years at International events at Durban, Gaborone, Mauritius, Paris, Reading UK, Singapore, Melbourne, Penang, Tokyo amongst others.



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## **WORKSHOP REGISTRATION FORM**

(To be held on 04.07.2016 at DPS – North)

### **Workshop for Principals / Vice-Principals**

Name of the school: \_\_\_\_\_

CBSE Affiliation Number \_\_\_\_\_ BSSC Code \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Phone No: \_\_\_\_\_ Email-id: \_\_\_\_\_

### **DETAILS OF THE PARTICIPANTS**

<b>Sl.No</b>	<b>Name of the Participant</b>	<b>Designation</b>

**School Seal**

**Signature of the Principal**