

## **1<sup>st</sup> University-Industry Innovation Summit**

The 1<sup>st</sup> University-Industry Innovation Summit was held at 'Hotel Rama International', Aurangabad on 16.02.2013. This was an initiative of Prof. Sudhir U. Meshram, Hon'ble Vice-Chancellor, North Maharashtra University, Jalgaon in association with Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Rotary Club, Aurangabad, Chamber of Marathwada Industries and Agriculture, Aurangabad.

The objective of **University-Industry Innovation Summit** was to showcase the innovative ideas and research work of Participants of "Avishkar 2012", and other budding researchers across 9 universities, to contribute to bridge the University-Industry communication gap and also to trigger the momentum of joint Research & Development projects with the industries.

Total 150 delegates from Industries and academia have attended the Summit. 30 researchers have exhibited their innovative work in the summit. The students/researchers across 9 universities showcased their talent and knowledge through Power Point Presentations, Models & Posters.

**The summit was inaugurated at the auspicious hands of the following dignitaries by lightening the Lamp.**

by Prof. Sudhir U. Meshram, Vice-Chancellor, North Maharashtra University, Jalgaon, Prof. Vijay Pandharipande, Vice-Chancellor, Dr. B.A.M.U., Aurangabad., Prof. R.B. Mankar, Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University, Lonere. Mr. Munish Sharma, Honorary Secretary, CMIA, Aurangabad, Mr. Avinash Dhumne, President Elect., Rotary Club, Aurangabad, Mr. Prafulla Mirajgaonkar, D G elected for Rotary Club, Aurangabad.

It was the enlightening Inaugural speech of **Hon'ble Vice-Chancellor, NMU, Prof. Sudhir U. Meshram**, which set the stage for a wholesome intellectual feast of deliberations and discussions that followed and continued for the day.

He said that this summit will establish a new horizon between University and Industry Interaction Cell as a mechanism with University and Industry partnership. The concept is known as Public Private Partnership (PPP) which will be meeting, interacting and collaborating to develop trained manpower which can accept global challenges. The university-industry interaction cell will strive to identify and analyze the problems being faced by multiple stakeholders in industries and devise programmes to remove the barriers to research and formulate strategies to achieve both short and long term goals during 12<sup>th</sup> Five Year Plan (April 2012-March 2017). The proposed conference is in line with the programme objectives of the university-industry interaction cell to harness the expertise of the professionals, university

institutions, talent of the students with an innovative idea, the knowledge of the faculty at the colleges and university departments and overall understanding of the institutions and industry professionals to achieve the programme goals. Further, the conference will leverage to establish relationships between industry and university professionals/experts to serve as a nodal point for the academic and research community, development professionals and donor agencies of industries to work in partnership with each other to achieve the sustainable manpower development goals. With the anticipated support from various industries, over the next coming years, the university-industry interaction cell will be developed into “*Knowledge Sustainable Exchange*” to provide viable, practical and cost effective economical solution to a variety of developmental problems being faced by the multiple stakeholders in industries both developed and developing countries through application of science and technology.

#### **COLLABORATIVE APPROACH :**

He also said that the University development in all respect cannot be seen and undertaken in isolation and it needs the active involvement of Public Private Partnership (PPP) and multiple disciplines including pure and social sciences, technology and engineering coupled with the traditional knowledge of community based organizations. University development always requires partnerships among the Govt. and non-Govt. organizations, funding agencies, academic research and management institutions, industry, financial institutions and many other development practitioners to ensure integration across local, regional, state, national and overall global concerns to provide socio-economic and environmental benefits on sustained basis.

#### **CONSTITUTION AND IMPLEMENTATION OF THE CELL :**

The university-industry interaction cell will work closely with the industries. University-industry steering committee will be constituted with representatives from all participating partners and partners’ meeting will be convened at regular intervals on rotation basis. A formal mechanism will be evolved to secure industrial inputs with their requirements on continuous basis. A regular interaction between University and industrial professionals will be encouraged for sharing of information, constrains, requirements to undertake mid-course correction and to refine the industry development based on inputs received from multiple stakeholders. A dynamic management is required for effective implementation of University-industry interaction

and needs to be adapted to ever changing circumstances which will guide this recreative and collaborative approach.

### **BENEFITS DERIVED :**

In addition to interacting with the industrial professional in Maharashtra and India, the establishment of university-industry interaction cell will also provide ideal ground to strengthen the ties between industry and educational institutions. The university and industry will further advance student exchange relationship and new course curriculum or up gradation course curriculum with the universities. The university-industry interaction collaborative programme will leverage collaborative online practical industry oriented learning, and emerging concept to expand the knowledge by enabling students to have significant practical oriented learning experience. The North Maharashtra University presently engaged with several academic collaborative programmes would now like to collaborate with industries that will allow industry to contribute to the social and economic development of Khandesh community. Both university and expertise industrial professionals will not, only bring valuable insight in the areas of technology requirements but also provide further expected to enhance the effective educational activities of the university-industry interaction cell. This initiative provides a unique opportunity to harness the expertise between each of these distinct domains to identify, address and share the environmental, societal challenges in our country.

### **SUSTAINABILITY :**

The proposed university-industrial partnership along with public private partnership (PPP) among the academic and research institutions and industrial development of entrepreneurs will improve the efficacy of activities undertaken by the university and industry individually, as the participating institution will be able to benefit from each other's strengths and will synthesize their efforts to achieve the programme goals focusing on sustainable development of trained manpower.

**Dr. R.B. Mankar, Vice-Chancellor, Dr. Babasaheb Ambedkar Technological University,  
Lonere :**

In his inaugural address, he congratulated Prof. Sudhir U. Meshram, VC, NMU, Jalgaon for organizing University-Industry Interaction - an innovation summit. He said “this summit will be successful in providing a platform to the students who have demonstrated their innovative ideas and won the prizes in the ‘Avishkar-2012’. According to him the job of the University is to produce competent graduates and the job of industry to offer them best jobs. The summit will provide a good platform to the students to showcase their knowledge, talent & skills. In his opinion, it is the job of the industries to convert the raw material i.e. students into a polished finished product.

Mr. Munish Sharma, Honorary Secretary, CMIA, Aurangabad ,said that “the Local industries and micro entrepreneurship need specialized skills. University-Industry should come forward and make the syllabi flexible keeping in mind the regional and local needs to offer deferential products. We should have tie-up with local Industries. Economic growth of our country is solely depends on academic institutions. The industry and University should jointly contribute for research, required for industry, which will make the students productive. The Universities and Industries should seriously consider the issue of providing 06 months in-plant training to the students, to make them Industry ready”.

**The following Experts from Industries were among the panel to evaluate the projects/models, Power Point Presentations, presented during the summit :**

- 1) Dr. C.B. Chaporkar, VP, Mahyco
- 2) Dr. Shashi katariya, Ajeet seeds
- 3) Mr. Abhijit Modi, IARE Technologies
- 4) Mr. D.N. Darurkar
- 5) Dr. Chikalthankar
- 6) Prof. S.M. Bedve, Dept. of Physics, BAMU.

The following representatives from the Universities and Industries took part in the panel discussion :

**Mr. Mukund Kulkarni, past president CMIA was the Moderator Chairman for the Session:**

1. Prof. R.B. Mankar, Vice-Chancellor, BATU, Lonere.
2. Prof. D.G. Hundiwale, Director, BCUD, NMU, Jalgaon.
3. Mr. Ranjitsingh Gulati, Priya Polymers, Aurangabad

4. Mr. Ashish Mantri, Chemical Sector.
5. Mr. Sunil Kirdak, Manufacturing Sector.
6. Mr. Arpit Save, Pharma Sector.
7. Mr. S.P. Subhedar, Processing Sector.
8. Dr. Yasin Shaikh, Training & Development Sector.
9. Mr. Nandkumar Kunchge, Bejo Sheetal seeds, Biotech Sector

The Directions and Suggestions from the panel discussion can be summarized as follows:

- It is the high time now that Academia-Industry Partnership is translated from a slogan to the reality. Privatization and liberalization, and now perhaps the globalization, of the higher education are paving the way to Academia-Industry partnership.
- The poor or almost missing academia industry (AI) linkage was observed in many sectors. Both the elements are working bipolar, as lemmings in dark, without knowing specific needs and resources of each other.
- It is observed that the syllabus of academic institutions is not contemporary with changing Industrial paradigms. Regular up gradation of the curriculum will generate the manpower in ready to use mode that could be absorbed and utilized by the concerned industries.
- Industry experts should be involved in framing the syllabus. Industry scientists should be called for examination.
- CMIA will offer about 100 live projects for the benefit of the students.
- The product coming out of the educational Institutes must be saleable; he should also possess the requisite skills, desired by the concerned Industries.
- The academic institutes should prepare the database of the students, along with their aptitude. The students should be given in-plant training in vacation after completion of 2 years of degree. The industry-wise database of the projects identifying the constraints and issues of the industry should also be prepared. So that student's aptitude and requirement of Industries can be mapped.
- The industry should help Universities by supplying trained human resources to operate the instruments/machines of R&D center.
- A desire was expressed that the University teacher should take at least 6/12 months industrial training, before joining academic Institutes, so that they will be aware about the problems and research areas in Industries.

- The students of rural areas should be given opportunity for working in the industry.

Universities and industry, which for long have been operating in separate domains, need to come closer to each other to create synergies. The constantly changing management paradigms, in response to growing complexity of the business environment, today, have necessitated these two to come closer. A productive interface between academia and industry at present time of globalised knowledge economy is a critical requirement. Failure to recognize each other's role will reduce the interface between institute and industry; and it can potentially give rise to mismatch between demand and supply of manpower, which, in turn, can cause disruption

### **Valedictory Session:**

The Chief Guest for valedictory function was Dr. Nitin Raut, Hon'ble Minister for Employment Guarantee Scheme & Water Conservation, Maharashtra State.

The objective of the summit was to bridge the gap between the Universities' products i.e. students and the needs and expectations of the industries. Mutual Benefit Action (MBA) should be planned and implemented which will be ultimately beneficial to all the stakeholders.

In the panel discussion, the representatives from industries and academic have put forward their respective needs and expectations from each other .

### **Possible Future Action :**

1. Industries and Universities should work collaboratively to make the students employable.
2. Mapping the priorities and expectations of Industries & Universities can be fruitful to all the stakeholders and can create a WIN-WIN situation.
3. Some thurst areas have been discovered as far as the Institutions & Enterprises are concerned. Learning, Protected Zone & Individual cares are the thurst areas of Institutions, where as Production, Efficiency & Profitability are the thurst areas of Enterprises.
4. The degree should be supported by value addition elective vocational papers in each semester which will fulfill the specific requirements of concerned industries.
5. The CMIA has expressed a desire to offer 100 Research Projects every year for the benefit of budding researchers.
6. The University should start some vocational courses in collaboration with local Industries, keeping in mind their specific needs .

**Dr. Nitin Raut, Hon'ble Minister for Employment Guarantee Scheme & Water Conservation, Maharashtra State, graced the valedictory function of University-Industry Innovation Summit**

I am happy that the able leadership and the guidance of Dr. Sudhir Meshram, with the support of Rotarian along with acumen of the CMIA and other industries, this University-Industry Innovation Cell will strengthen the relations with industries.

The University-Industry should work closely with each other. Identifying each other needs can provide a solution to the problems faced by Institutions & Enterprises. I think, we should constitute one steering committee for this. This committee will give regular guidance according to the need of the industries. We require a dynamic management for effective University-Industry interaction which will guide the collaborative projects. The North Maharashtra University, Jalgaon has collaborated with industries, it will be helpful to social and economic development of the backward and tribal region of this State. The role of State Government is very important in this process. I assure you that, I will try to help the best for the successful implementation of this concept. He has congratulated the team of G H Raisoni College of Engineering, Nagpur and appreciated their project entitled “**Design & Modeling of Cotton Picker cum Boom Sprayer**” and “**Design & Fabrication of Agriculture Sprayer with Weedier**” which were invited by the industries to commercialize.

**Appreciation of Student's Project by Industry Experts:**

Thus innovative ideas of the students were converted in to a product of Industry relevance.

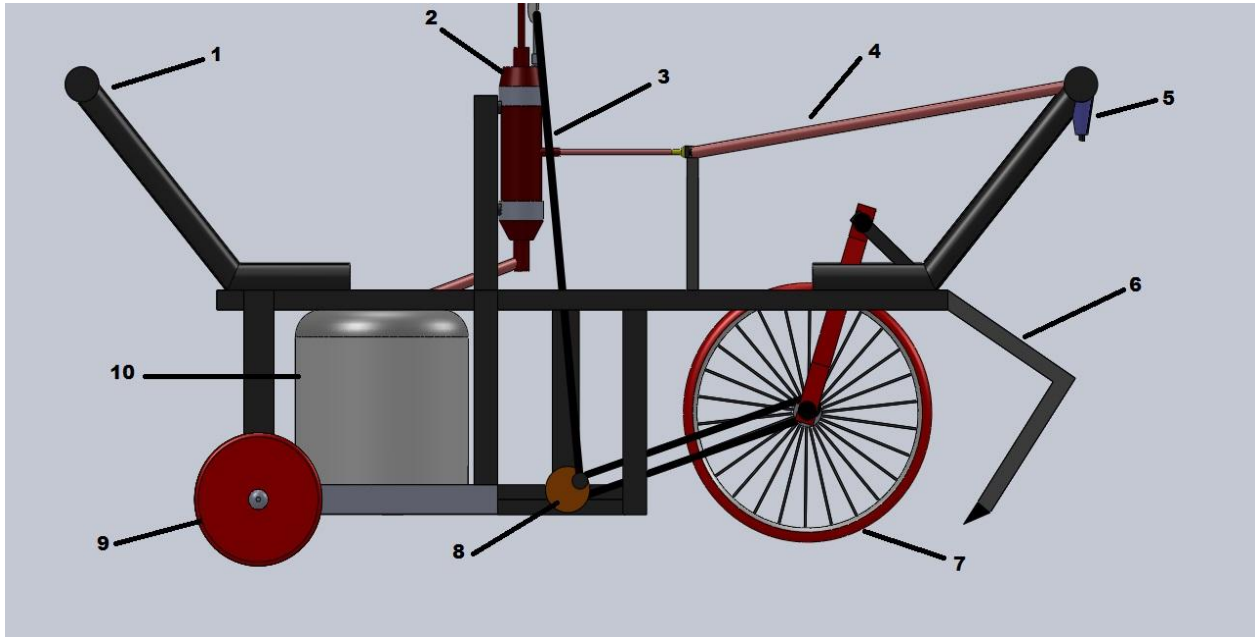
*Following two models of the students from* G H Raisoni College of Engineering, Nagpur, were invited by the Industries for Commercialization of the product. The innovative Models were prepared by a team of students namely

**Naresh Lohana ,Shirke Vishal ,Taware Sunil Rambhaji ,Misal Satish Limbaji Mr. Swapnil Thakre, Mr. Swapnil Nagrare,Mr. Siddhesh Hande,Mr. Nikhil Joge .**  
They were guided by Prof. Laukik Raut and Prof. Nilesh Awate.

**1. Design & Modeling of Cotton Picker cum Boom Sprayer.**



## 2. Design & Fabrication of Agriculture Sprayer with Weeder”



### Best Presentation Awards :

At the end of the summit, following 3 best presenters have awarded cash prize of Rs. 10,000. The prizes were sponsored by Bejo Sheetal Seeds, Jalna, Kalika Steels, Jalna and Mahyco, Jalna, respectively.

Rank	Name of the Winner	Project	Institute/University	Name of the industries who awarded the prize
1	Mr. V.D. Fasake	Low cost semi automatic vibrating seeder	Mahatma Phule Krishi Vidyapeeth, Rahuri	Mahyco, Jalna
2	Mr. Abhinandan Patil	New era finger print technique diagnosis of color cancer	Shivaji University, Kolhapur	Kalika Steels, Jalna
3	Mr. Prashant Baviskar	Construction of colorful, low cost, device grade dye synthesized solar cell based on chemically synthesized ZnO thin films.	Dept. of Physical Science, North Maharashtra Univ., Jalgaon	Bejo Sheetal Seeds, Jalna



The summit was concluded with the vote of thanks by **Prof. Preeti Agarwal, the Organizing Secretary of the Innovation Summit and Chief Coordinator of UII Cell, North Maharashtra University, Jalgaon.** and with the declaration to conduct the next University-Industry Innovation Summit at national level at New Delhi.