



IIMR

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In this issue.....

1. Brainstorming meet on Small millets Research
2. Expert consultation meet on pearl millet research
3. *Swachhta Pakhwara* at IIMR
4. Seminar by Arun Tiwari
5. Millets exploration from AOB
6. Germplasm collection of millets from Tamil Nadu
7. Seminar by Rajiv Varshney, ICRISAT
8. Sorghum stall at Muzafarnagar
9. MoU with M/s. Raziyya Food Processing Unit, Kamareddy
10. Transfer
11. Visitors

Brainstorming meet on Small millets Research

A one day Brainstorming meet on Small millets Research, entitled "Leveraging Small Millets for Food, Fodder, Nutrition, Livelihood Security and Economic Prosperity in the 21st Century and beyond" was organized by the institute at the ICAR-NBSS& LUP Re-



gional Centre, Hebbal, Bangalore, on 18th May, 2016. The event was attended by more than 50 delegates involved in small millet research, production, utilization, promotion and marketing. Former project coordinators on small millets research project, former and present AICRP small millets scientists from across the country, present and former vice chancellors of UAS, Bangalore, Millet food and nutrition experts, food processing and machinery experts, medical doctors, millet products based entrepreneurs attended the deliberations.

Dr. A Seetharam, Ex-Project Coordinator, AICRP on Small Millets, was the Chairman and Dr. PG Chengappa, Ex-Vice Chancellor, UAS, Bangalore, was the Co-Chairman for the meeting. The inaugural address was delivered by the Chief Guest Dr. H. Shivanna, Honourable Vice Chancellor, UAS, Bangalore. Dr MB Chetti, Assistant Director General (HRD), ICAR, New Delhi, elaborated on the productivity constraints for small millets and readiness of ICAR to promote the cause of small millet research. This was followed by presentation on current status of small millets research by

समाचार सारांश**लघु कदन्न अनुसंधान पर चिंतन सभा**

भाकअनुसं. के द्वारा भाकअनुप-राष्ट्रीय मृदा सर्वेक्षण एवं भूमि उपयोग नियोजन ब्यूरो के क्षेत्रीय केंद्र, हेबबल, बैंगलुरु में 18 मई 2016 को *लिवरैजिंग स्माल मिलेट्स फॉर फूड, फॉडर, न्यूट्रिशन, लिइवलिहुड सेक्युरिटी, इकनॉमिक प्रॉस्पेरिटी इन द 21 सेंचुरी एंड बिआंड* नामक एक दिवसीय चिंतन सभा का आयोजन किया गया। इस कार्यक्रम में लघु कदन्नो के अनुसंधान, उत्पादन, उपयोग, प्रसार तथा विपणन में संलग्न 50 से ज्यादा प्रतिनिधियों ने भाग लिया। डॉ. ए सीतारामा, भूतपूर्व समन्वयक, लघु कदन्नो पर अभासअनुप तथा डॉ. पी जी चेंगप्पा, भूतपूर्व कुलपति, कृविविवि, बैंगलुरु इस बैठक के क्रमशः अध्यक्ष तथा सह-अध्यक्ष थे। सभा के मुख्य अतिथि डॉ. एच शिवन्ना, कुलपति, कृविविवि, बैंगलुरु ने उद्घाटन भाषण दिया। डॉ. एम बी चेटी, सहायक महानिदेशक (मासंवि), भाकअनुप, नई दिल्ली ने लघु कदन्नो की उत्पादकता संबंधी बाधाओं के बारे में सविस्तार चर्चा की। डॉ. विलास ए टोणपि, निदेशक, भाकअनुसं ने लघु कदन्नो की वर्तमान स्थिति के संबंध में प्रस्तुतीकरण दिया। डॉ. वी ए टोणपि के दिशा-निर्देश में डॉ. बी वेंकटेश भट ने उक्त सभा का समन्वय किया।

बाजरा अनुसंधान पर विशेषज्ञ परामर्श सभा

भाकअनुसं. में 28 मई 2016 को *लिवरैजिंग पर्ल मिलेट्स फॉर फूड, फॉडर, न्यूट्रिशन, लिइवलिहुड सेक्युरिटी, इकनॉमिक प्रॉस्पेरिटी इन द 21 सेंचुरी एंड बिआंड* नामक पर्ल मिलेट अनुसंधान पर एक दिवसीय विशेषज्ञ परामर्श सभा का आयोजन किया गया। इस बैठक का मुख्य उद्देश्य बाजरा अनुसंधान में अनुसंधान मुद्दों का पता लगाना एवं भाकअनुसं में उनके निपटान हेतु मूलभूत तथा नीतिपरक कार्य-योजना तैयार करना था। डॉ. विलास ए टोणपि, निदेशक, भाकअनुसं ने बैठक के प्रारंभ में सहभागियों का स्वागत किया। डॉ. के एन कुलकर्णी, भूतपूर्व प्रधान वैज्ञानिक, इक्रिसेट ने बैठक की अध्यक्षता की, जबकि डॉ. वी एन कुलकर्णी, उपाध्यक्ष (अनु एवं वि), जेके एग्री जेनेटिक्स लि हैदराबाद सह-अध्यक्ष थे। डॉ. संजना रेड्डी, वरिष्ठ वैज्ञानिक, भाकअनुसं ने बाजरे में अनुसंधान की वर्तमान स्थिति पर प्रस्तुतीकरण दिया। इस बैठक में लब्ध-प्रतिष्ठ विद्वानों ने भाग लिया। डॉ. वी ए टोणपि के दिशा-निर्देश में डॉ. बी वेंकटेश भट ने उक्त सभा का समन्वय किया।

भाकअनुसं में स्वच्छता पखवाड़ा

भाकअनुसं में 16-31 मई, 2016 के दौरान स्वच्छता पखवाड़ा नामक स्वच्छता कार्यक्रम का आयोजन किया गया। श्री सरोज कुमार सिंह के द्वारा 16 मई, 2016 को स्वच्छता शपथ दिलाने के साथ इस कार्यक्रम का औपचारिक रूप से उद्घाटन किया गया। डॉ. वी ए टोणपि, निदेशक, भाकअनुसं के दिशा-निर्देश में संस्थान में स्वच्छ भारत मिशन के नोडल अधिकारी डॉ. एस एस राव ने उक्त कार्यक्रम का समन्वय किया।

डॉ. अरुण तिवारी द्वारा विचार-गोष्ठी

भाकअनुसं डॉ. अरुण तिवारी, केयर फाउंडेशन के निदेशक ने 2 मई, 2016 को "सफल जीवन के प्रेरणा स्रोत डॉ. अब्दुल कलाम" पर व्याख्यान दिया। उन्होंने डॉ. कलाम के कठोर परिश्रम, दूरदृष्टि, ईमानदारी, समर्पण तथा प्रतिबद्धता पर प्रकाश डाला।

तमिलनाडु से कदन्न जननद्रव्यों का संग्रहण

भाकअनुसं से डॉ. एम एलंगोवन ने 24 मई से 1 जून, 2016 के दौरान तमिलनाडु में कदन्न के जननद्रव्य संग्रहण का कार्यक्रम चलाया। इस कार्यक्रम में दौरान उन्होंने तमिलनाडु के सेलम, नमक्कल, तिर्ची, विलुपुरम तथा धर्मपुरी नामक पांच जिलों से बाजरा - 26, ज्वार - 23, रागी - 22, कुटकी - 19, कंगनी - 12, कोदो - 8, इसके अलावा चावल - 6 वंशालियों का संग्रह किया।

डॉ. राजीव वाष्ण्य द्वारा व्याख्यान

डॉ. राजीव वाष्ण्य, अनुसंधान कार्यक्रम निदेशक, (जेनेटिक्स गेन्स) इक्रिसेट ने भाकअनुसं में 30 मई, 2016 को फारवर्ड ब्रीडिंग फॉर एक्सेलरेटिंग जेनेटिक गेन्स इन क्रॉप मुवमेंट पर व्याख्यान दिया। उन्होंने लक्षण-प्ररूपण तथा जीनोम अनुक्रमण पर भी संक्षिप्त रूप में जानकारी प्रदान की।

मुजफ्फरनगर में ज्वार स्टाल

भाकअनुप - भाकप्रअनुसं, मोदीपुरम, मेरठ, उ.प्र. द्वारा 6-8 मई, 2016 के दौरान आयोजित कृषक प्रक्षेत्र स्कूल में भाकअनुसं ने ज्वार स्टाल लगाया। डॉ. संजीव कुमार बलयाण, केंद्रीय कृषि एवं किसान कल्याण राज्य मंत्री ने इस कार्यक्रम का उद्घाटन किया। डॉ. एस के बलयाण ने ज्वार स्टाल का दौरा किया तथा सुझाव दिया कि संस्थान के ईटराइट उत्पादों को देश के उत्तरी भागों में भी पहुंचाया जाए। पश्चिमी उत्तर प्रदेश के 85 गांवों के 5000 से ज्यादा कृषकों ने इस कार्यक्रम में भाग लिया। डॉ. संगप्पा, वैज्ञानिक ने उक्त स्टाल का संचालन किया।

सर्वश्री रज़िय्या फूड प्रॉसेसिंग यूनिट, कामा रेड्डी के साथ समझौता ज्ञापन

सर्वश्री रज़िय्या फूड प्रॉसेसिंग यूनिट के द्वारा 28 मई, 2016 से तीन वर्षों के लिए खुदरा तथा थोक बाजार में उनके ब्रांड नाम से ज्वार तथा बहु-धान्य आटे पर भाकअनुसं प्रौद्योगिकी के विपणन के लाइसेंस हेतु भाकअनुप - भाकअनुसं तथा सर्वश्री रज़िय्या फूड प्रॉसेसिंग यूनिट, कामा रेड्डी के मध्य समझौता ज्ञापन हुआ। भाकअनुसं की ओर से डॉ. विलास ए टोणपि, निदेशक तथा सर्वश्री रज़िय्या फूड प्रॉसेसिंग यूनिट की ओर से सुश्री रज़िय्या बेगम ने उक्त समझौते ज्ञापन पर हस्ताक्षर किए। डॉ. बी दयाकर राव ने उक्त ज्ञापन को सुकर बनाया।

स्थानांतरण

डॉ. प्रभाकर, प्रधान वैज्ञानिक, र.ज्वा.कं. सोलापुर का परियोजना समन्वयक-लघु कदन्नो पर अभासअनुप, बैंगलुरु के पद पर चयन हो जाने एवं डॉ. सुनील गोमाशे, वैज्ञानिक के रा.पा.आ.सं.ब्यू के क्षेत्रीय केंद्र, अकोला में स्थानांतरण हो जाने के कारण उक्त दोनों अधिकारियों को भाकअनुसं से 31 मई, 2016 को कार्यभार मुक्त किया गया। भाकअनुसं परिवार उनके सफल एवं उज्ज्वल भविष्य की कामना करता है।

आगन्तुक

मौज़मबिक से उच्च स्तरीय प्रतिनिधि-मंडल का दौरा

श्री ओलेगैरिओ डॉस अंजॉस बेंजे, राष्ट्रीय निदेशक, भूमि, पर्यावरण तथा ग्रामीण विकास मंत्रालय तथा श्री अमिलकर फ्रडेरिको पेरेइरा, रिपब्लिक मौज़मबिक के मंत्री के सलाहकार ने 24 मई, 2016 को भाकअनुसं का दौरा किया। डॉ. विलास ए टोणपि ने उन्हें संस्थान की गतिविधियों के बारे में संक्षिप्त जानकारी प्रदान की। उन्होंने संस्थान की मूल्य-वर्धन प्रौद्योगिकियों को उनके देश में हस्तांतरण हेतु रुचि दर्शायी।

इक्रिसेट प्रतिनिधि-मंडल

जोन्ना कने-पोटका, निदेशक, स्ट्रैटेजिक मैनेजमेंट एंड कॉम्युनिकेशन, इक्रिसेट, पटनचेरु ने डॉ. माँसेस सिअम्बी, निदेशक इक्रिसेट, पूर्वी आफ्रीका के साथ 6 मई, 2016 को भाकअनुसं का दौरा किया।

Vilas A Tonapi, Director, ICAR-Indian Institute of Millets Research, and Hyderabad. The inaugural session was followed by open dis-



ussion on various topics related to small millets research. Broadly, on Crop improvement and innovative strategies, Management of crop production, crop protection, seed systems, and Nutrition, processing of millets, value chain, marketing, policy issues, entrepreneurship development and challenges for entrepreneurs. All the delegates actively participated in the discussions and the sessions.

The meeting was coordinated by Dr. B. Venkatesh Bhat, Principal Scientist, IIMR, under the guidance of Dr. Vilas Tonapi, Director, IIMR, Hyderabad. Mr. HS Gawali and Mr. Raghunath Kulakarni Technical officers, IIMR, Hyderabad Mr. Narasimha Murthy, Field Assistant, AICRP- Small millets, Bangalore shouldered the responsibilities of executing the hall arrangements and related logistics. IIMR is indebted to Dr. Rajendra Hegde, Head, and Mr. Shivappa Angadi, Technical Officer, NBSS & LUP, Bangalore, for providing the meeting hall and guest house facilities and support for all aspects of conducting the meeting.

Expert consultation meet on pearl millet research

A one day expert consultation meet on pearl millet research, entitled "Leveraging Pearl Millet for Food, Fodder, Nutrition, Livelihood Security and Economic Prosperity in the 21st Century and



beyond" was organized in the institute on 28 May, 2016. The objective of the meeting was, to identify research issues in pearl

millet research and the basic and strategic research projects to be planned by IIMR to address the same.

Dr Vilas A Tonapi, Director, IIMR, welcomed the participants for the brainstorming session and gave a brief introduction on the purpose of the meeting. He also highlighted the issues what IIMR



has to address especially enhancing breeding efficiency, genetic gain, hybrid seed systems, nutritional and anti-nutritional aspects, entrepreneurship development, policy issues and rationalization of manpower for these eight crops. Dr. KN Rai, Former Principal Scientist, ICRISAT, chaired the meeting while Dr. VN Kulkarni, Vice President (R&D), JK Agri-Genetics Ltd. Hyderabad, was the co-chairman. Dr Sanjana, Senior Scientist, IIMR made a presentation on "Current Status of Research in Pearl millet". This was followed by open house discussion on pearl millet research, led by the Chairman. The invited speakers including Dr. N. Seetharama former Director, IIMR & Ex-Sr. Scientist, ICRISAT, Drs. RK Varshney, Research Program Director (Genetic gains), SK Gupta, Sr. Scientist (Pearl millet Breeding), RK Srivastava, Scientist (molecular breeding), M Govindaraj Scientist (physiology), Rajan Sharma, Head, Plant Quarantine Unit (All from ICRISAT), Shankar Honyal, Millet Breeder, Kaveri Seeds, Hyderabad, deliberated on various challenges facing pearl millet research and production, and highlighted the opportunities this crop provides for food and nutritional security in semi-arid tropics. All scientists from IIMR actively participated in the discussions to fine-tune their goals and approaches in pearl millet research. The meeting



was coordinated by Dr. B. Venkatesh Bhat, Principal Scientist, IIMR, under the guidance of Dr. Vilas Tonapi, Director, IIMR, Hyderabad. Dr. Sanjana, Sr. Scientist, Dr. KV Raghavendra Rao,

Mr. Vilas Aghav, Mr. Raghunath Kulakarni, Mr. OV Ramana, Mr. S Narender and other staff members of IIMR took care of the arrangements of the meeting.

Swachhta Pakhwara at IIMR

The fortnight-long cleanliness programme entitled "Swachhata Pakhwara" observed at Indian Institute of Millets Research during 16 -31 May 2016. This programme formally inaugurated on 16 may, 2016 by taking "Swachhta Pledge" administered by SAO under overall coordination of Dr SS Rao, Nodal Officer, SBM, IIMR, and Hyderabad.

To mark this occasion, a special drive program on "Swachhta Pakhwara" was organized at Maharajpet village, in RR district. Telangana to create awareness on cleanliness at the village level



combining technology transfer of millet crops for productivity increase and value addition. The programme was chaired by Smt. Yadamma, Gram Sarpanch and the persons on dais were: Smt. Kavitha, MPTC, Sh. Satyanarayana Reddy, Vice-president Shri. Ravi and Smt. Mahalakshmi, VRO, and Scientist from IIMR Dr. Ch.



Shashidhar Reddy. The programme was attended by 50 village farmers and local officials. Dr. Ch. Shashidhar Reddy sensitized the village farmers about the need for field sanitation, soil health

and adopting improved kharif/rabi sorghum/millets HYV, crop management practices and Post-Harvest Technologies for increasing the yields, improving health and earning profits. He also advised farmers to utilize the facilities at IIMR at food processing unit to enhance the income through promotion of millet value added products. This entire program was coordinated by Dr SS Rao, Nodal Officer, Swachha Bharat Mission, IIMR under the guidance of Dr Vilas Tonapi, Director, IIMR, Hyderabad.

Seminar by Arun Tiwari

Dr. Arun Tiwari, a close associate of Dr. Abdul Kalam and co-author of all books with Dr. Abdul Kalam, and present Director of Care foundation, Hyderabad delivered a lecture titled "Lessons from Dr. Abdul Kalam's Life" at IIMR on 2 May, 2016. Dr. Tiwari who was a close associate of Dr. Kalam provided ample incidences happened in Dr. Kalam's life and presented in a motivational way. He explained how apparently small, but positive decisions of gestures of people led the boy Kalam from his village to



higher education, establishment of ISRO and beginning of space programme and road map of missile mission. He highlighted the hard work, vision, honesty, dedication and commitment of Dr. Kalam which is worth emulating by all.

Millets exploration from AOB

Germplasm collection programme of millets was undertaken at Andhra - Odisha Border areas and south east coastal districts of Andhra Pradesh and Odisha. Drs. M. Elangovan and Ch. Sashidhar Reddy, from IIMR explored the area during 14-20 May, 2016. Total 133 accessions were collected from Srikakulam, Vijayanagaram and Visakhapatnam districts in Andhra Pradesh and Raigada district in Odisha. The accessions of various crops collected during this visit were: Sorghum - 20; Pearl Millet-15; Finger Millet-32; Foxtail Millet - 22; Little Millet - 19; Proso Millet - 3; kodo Millet - 5; Barnyard millet - 2 besides rice, cowpea, redgram. They also visited Agricultural Research Station, Seethampeta village, Chinmaya Adivasi Vikas Sangham, Savara Chirologi village, Krishi Vignyan Kendra at Rastha Kundu Bai village and Araku Valley.

Germplasm collection of millets from Tamil Nadu

Dr. M. Elangovan has undertaken millets exploration in and around Kolli hills region and Kalvarayan hills in Tamil Nadu during 24 May 2016 - 1 Jun 2016. In the present millets exploration, He collected 131 accessions from five districts viz. Salem, Namak-

kal, Trichy, Villupuram and Dharmapuri in Tamil Nadu. The details of millets collected are as follows: Pearl millet -26; Sorghum-23; Finger millet-22; Little millet-19; Foxtail millet -12; Kodo mil-



let-8; besides 6 Rice accessions.

Seminar by Rajiv Varshney, ICRISAT

Rajiv Varshney, Research program Director (Genetic Gains) ICRI-SAT delivered at lecture on "Forward breeding for accelerating genetic gains in crop improvement" at IIMR on 30 May, 2016. He outlined the possible schema for increasing the efficiency of selection and reducing the population size in pedigree selection breeding methods in dryland crops using high throughput sequencing techniques. Where validated DNA makers which can be used as diagnostic markers for traits of interest available, they



can be used under this scheme at a very low cost of only \$1.75 - 2.0 per data point, reducing the time and resources required for pedigree breeding. He suggested that IIMR and ICRISAT can collaborate to adopt this approach, also for precise phenotyping and genome sequencing. IIMR scientists interacted extensively, making the talk very useful.

Sorghum stall at Muzafarnagar

IIMR -Hyderabad organized an exhibition stall at Farmers Field School organized by ICAR- IIFSR, Modipuram, Meerut, Uttar Pradesh during 6- 8 May, 2016. Dr Sanjeev Kumar Balyan, Union Minister of State for Agriculture and Farmers Welfare inaugu-



rated the event. Dr. A. K. Singh, Deputy Director General (Agricultural Extension), ICAR was the chief guest. Dr SK Balyan, visited the millets stall organized by Indian Institute of Millets Research and advised to spread the eatrite branded products in northern part of the country also. About 5000 farmers belonging to 85 villages of Western U.P. participated in the programme. Besides, 10 ICAR institutes participated and showcased their technologies to stakeholders/farming community. Dr. Sangappa, Scientist from IIMR organized the stall and briefed about the activities and services of IIMR, Hyderabad.

MoU with M/s. Raziyya Food Processing Unit, Kamareddy.

Memorandum of Understanding between ICAR-IIMR and M/s Raziyya Food Processing Unit, Kamareddy, Nizamabad district, Telangana was signed to license the IIMR technology on Jowar and multi grain *atta* to be marketed by M/s Raziyya Food Processing Unit under their brand name in retail and wholesale. This Agreement shall be in force for a period of 36 months from 28th May, 2016. Dr Vilas A Tonapi, Director – IIMR on behalf of IIMR and Ms Raziyya



Begum on behalf of M/s. Raziyya Food Processing Unit, signed and exchanged the agreement. The agreement was facilitated by Dr B Dayakar Rao, , Principal Investigator – Centre of Excellence on Sorghum.

Transfer

IIMR bid farewell to Dr. Prabhakar, Principal Scientist, at CRS, Solapur on his selection as Project Coordinator-AICRP-Small Millets, Bangalore, and to Dr. Sunil Gomashe, Scientist, Plant Breeding at IIMR, who has been transferred to NBPGR regional station at Akola, Maharashtra on 31 May, 2016. Dr. Vilas A Tonapi, Director



and other staff recollected their services to the institute and wished them a successful career and fulfilment in their future endeavours.



Visitors

ICRISAT delegation

Joanna Kane-Potaka, Director, Strategic management and communication, ICRISAT, Patancheru along with Dr. Moses Siambi,



Director, ICRISAT, East Africa – on 6 May, 2016. Discussions were held on value-addition in sorghum and developing it in a project made for implementation in Africa. Team also visited the CoE on sorghum facility at IIMR.

Visit of high level delegation from Mozambique

Mr. Olegario dos Anjos Banze, National Director, Ministry of Land, Environment and Rural development, and Mr. Amilcar



Frederico Pereira, Advisor to Minister, Republic of Mozambique Minister, visited IIMR on 24 May, 2016. Their visit to IIMR was a part of their orientation programme on rural development for high level delegation from Mozambique, which was held at NIRD, Hyderabad during 23-26 May, 2016. Dr. Vilas A Tonapi, Director -IIMR, briefed them about institute activities. The scientists at IIMR appraised the team about the cultivation, conservation and processing of sorghum products. The team also visited the centre of excellence for sorghum foods and value addition. They showed interest in transferring the value addition technologies to their country through collaboration.

CEO, Sabala Agro Products

Anil Nakka, founder & CEO, Sabala Agro Products P. Ltd, Bengaluru on 5 May, 2016 visited the institute to get knowhow on millet food



products and processing, to add them to the portfolio of his company engaged in dehydrated and value added food manufacturing and marketing. He showed interest in getting involved with IIMR for transfer of millet food value addition technologies.

Delegates from Bangladesh

A group of 9 delegates from Bangladesh, participants of a training programme organized by the NIRD, Hyderabad, visited the



IIMR on 12 May, 2016 to get detailed know-how about the sorghum crop and its usefulness. Dr. Vilas A Tonapi, Director, IIMR, and other scientists, provided orientation about the latest production technologies developed at the institute. The team showed keen interest in dual purpose varieties, forage sorghum, sweet sorghums and sorghum food products.

Meetings (M) / Symposia (S) / Workshops (W) / Trainings (T) Conferences (C) attended

S. No	Name of the Official	Participated in	Type	Venue	Dates
1	VA Tonapi, B Venkatesh Bhat AV Umakanth	Annual review cum work plan meeting of DBT project on commercialization of sweet sorghum	M	ICRISAT, Patancheru	30 May, 2016
2	VA Tonapi, SS Rao, Prabhakar, HS Talwar, B Dayakar Rao, C Aruna, G Shyam Prasad, B Venkatesh Bhat, Hariprasanna K, IK Das & KN Ganapathy, HS Gawali, R. Kulkarni	Brain storming session on Small millets	M	NBSSLUP, Bangalore	18 May, 2016
3	Hariprasanna K	Review meeting of CRP-Biofortification.	M	Krishi Bhawan, New Delhi	20 May, 2016
4	Vilas A Tonapi & Hariprasanna K	Joint Workshop under Indo-German Bilateral Cooperation in Seed Sector	W	PPV&FRA, New Delhi	23-24 May, 2016

Thought for the month

Just as our eyes need light in order to see, our minds need ideas in order to conceive."

-- Napoleon Hill



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