

#### Late Guruvarya Shankarrao Kanitkar Founder, Progressive Education Society, Pune (1888-1964)

Progressive Education Society is a reputed and distinguished educational institution in Maharashtra. Hon'ble, Late Shankarrao Kanitkar, along with his selfless dedicated team of teachers known for the highest moral values, laid the foundation of the Society on the auspicious day of 'Akshay Tritiya' on 16th May, 1934 in Pune. P. E. Society has been making noteworthy progress for the last 80 years along with the noble path and principles laid down by the eminent predecessors such as Guruwarya Late S. R. Kanitkar, Late V. T. Tatke and Late M. G. Chaphekar, who were illustrious incarnations of ceaseless hard work and sacrifice. Late S. R. Kanitkar was ably assisted by Late V. T. Tatke, Late M. G. Chaphekar and Late Koparkar. Progressive Education Society is proud to possess the glowing tradition of these stalwarts.

The two remarkable words that appear in the names of the Society and its educational institutions are "Progressive" and "Modern". The inclusion of these words was certainly with some noble intentions, which serves as a bright beacon for P. E. Society to follow with determination.

The two words viz. 'Progressive' and 'Modern' highlight the aims and objects of this reputed educational institution. 'Progressive' and 'Modern' were the terms used in 1934 by Late S. R. Kanitkar and his colleagues to demarcate the dreams and future road map of Progressive Education Society.

'Progressive' means keeping with the spirit of times and innovation while 'Modern' means Modern in outlook, up-to-date in all matters whether it is an academic, sports or cultural activities. It was resolved to use modern equipments and modern methodology to teach the students.

The aims and objectives of the Progressive Education Society as laid down in its Constitution are to impart generally to the rising generations of this country and particularly to the residents of Maharashtra, an efficient Pre-Primary, Primary, Secondary, Higher Secondary and Collegiate education, embodying a literacy, scientific, technical, commercial and industrial training and the training of teachers by the establishment at Pune and other places in the Maharashtra State, as circumstances permit, of Pre-Primary, Primary, Secondary, Higher Secondary Schools and Colleges or by such other means as may be most conducive to the attainment of the aims and objects of the Society.

Business Council of Progressive Education Society consists mainly Teachers. Therefore there is no scope for commercialization of education in Progressive Education Society.



# **Progressive Education Society**

Shivajinagar, Pune 411 005 Maharashtra, India

# ♦ Editorial Board ♦

•	Prof. Dr. Gajanan R. Ekbote	Chief Editor
•	Prof. Mrs. Jyostna G. Ekbote	Member
•	Prof. Prakash G. Dixit	Member
•	Prof. Dr. Rajendra S. Zunjarrao	Member
•	Prof. Dr. Kalyani R. Joshi	Member
•	Prof. Dr. Sanjay S. Kharat	Member
•	Prof. Dr. Pravin D. Chaudhari	Member
•	Prof. Dr. Sunita Adhav	Member
•	Prof. Dr. Vijayalaxmi Srinivas	Member
•	Prof. Dr. Shashikant Dhole	Member
•	Prof. Dr. Shubhangi Walvekar	Member
•	Prof. Nivedita G. Ekbote	Member
•	Prof. Shamkant S. Deshmukh	Convener

'DNYANAMAY' is quarterly Research Journal owned by Progressive Educational Society. Printed and Published by Prof. Shamkant Deshmukh Printed at Ideal Printers and Visualizers, 562/5, Saj Chambers, Shivajinagar, Pune 411005. Published at Progressive Education Society, Shivajinagar, Pune 411005. Chief Editor - Prof. Dr. Gajanan R. Ekbote



Prof. Dr. Gajanan R. Ekbote M.S., M.N.A.M.S. Chairman, Business Council, P. E. Society

### **Editorial**

Progressive Education Society was founded on 16th May, 1934 on the auspicious day of "Akshay Tritiya" by Guruwarya Shankarraoji Kanitkar and his five teacher colleagues. This educational trust started its functioning with the inception of Modern High School which was initially located in Shaniwar

Peth of Pune city. In 1938, Modern High School was shifted to the Shivajinagar area of Pune city. British Government officer viz. Mr. Cameron, after due inspection of Modern High School, appreciated the academic work of it and gave approval to Modern High School from Std. 5th to Std. 11th in one directive. This was a remarkable achievement. Since then the authorities of Progressive Education Society, together with teaching and non-teaching staff members, have worked hard to keep the reputation of Progressive Education Society and its Schools and Colleges.

16th May, 2015 marks completion of 81 glorious years of Progressive Education Society. In this 21st century also, Progressive Education Society and the Schools and Colleges managed by P.E. Society are playing vital role in the dissemination of Education in the State of Maharashtra and in our country. Since this educational trust is managed by teachers, there is no scope for "commercialization" of education in Progressive Education Society. The Office bearers of Progressive Education Society came with an idea of starting a "Research Journal" of Progressive Education Society on this occasion.

Various Schools /Colleges managed by Progressive Education Society are playing an important role in imparting School / College education to the students. As far as higher education is concerned, the Colleges managed by P. E. Society are well known for their academic excellence. Their academic excellence is certified by Statutory Agencies like Savitribai Phule Pune University, Pune, NAAC, Bangalore, University Grants Commission, New Delhi and various other departments of Central Government e.g.- Science and Technology etc. Various Colleges managed by Progressive Education Society have established research centers which are recognized by the authorities of Savitribai Phule Pune University, Pune. Various research projects are carried out in these Colleges. Research plays an important role in the process of dissemination of education. This Research is in the different faculties like Science, Arts, Commerce, Management, Law, Medicine etc.

Seventy-five years ago, on 16th November 1935, Robert Hutchison - a great dazzling star in the milky way of Science and Medicine, delivered before the Royal Society of Medicine the prestigious Lloyd Roberts oration. Standing before a packed hall of physicians, he started his speech -

"The amount of writings of a profession is a measure of its vitality and activity, whilst their quality is a rough indication of its intellectual state. Science literature is the currency or medium of exchange by which a man contributes to or borrows from the common stock of knowledge and experience, and the volume of this currency and the character of its metal are of the greatest importance to us all."

Such is the strength of this simple thought, that even today, and perhaps, for all times is further to come, it would remain a beacon, an aphorism, to guide generations upon generations of scientists.

All good literature is born out of the holy trinity of **creativity, knowledge, and experience.** Yet, what is the prime mantra which lays open this quest? To my mind, the biggest seminal force is "curiosity". It is the elan vital which gives birth to exploration, inquiry, experimentation, analysis, discussion, and derivation- fuels critical for genesis of newer and greater understanding of scientific truth. This great spirit embedded in us since the times of our great forefathers has led to a remarkable journey; of discovery, knowledge, and creativity deeper insight of life.

Mother Nature has the riches to balm all. The Himalayan mountains, streams and rivers make a fascinating break. In a recess from this dreary world, in Himalaya Mountains the mind finds its calm and peace. Standing in a valley, viewing the morning sun rise, many thoughts fill up the mind. Dwell a little more deeply, and as the day lifts, you may ponder : Who is the first to catch the first rays of dawn ? Yes, you're right! It's the tops of the mountains, and the trees those grow out of them! Standing large, like the highest intellects, they are the first to reflect upon the profundities of life.

Couldn't we be like them, like those trees? If we do, we could easily sift the silver from the dross, the truth from the artifacts, recognize as we must the latter!

Down the ages, the science and technology has fashioned a great march of progress. Like the trees on the tops of the mountains, it has witnessed a myriad changes, quantum leaps, and exponential progress; yet, perhaps it has never been colored so deeply before with the dark hues of individualism, commerce, duplicity, and voracity. In this ecosystem, if the soul and mission of Science and Technology is to be lived, we must stand guard that these colors – knowingly or unknowingly – do not impregnate our minds.

Even as the journey of Science and Technology progresses and the tree of knowledge grows bigger, greener, and laden with far more ambrosial fruits, we must pride ourselves in being dutiful of frailty, humility, and humanness life teaches us, and our lips must unite in a silent prayer, a prayer that Sir Robert Hutchison, then a celebrated Physician in his 83rd year, enunciated :

"From inability to let well alone; From too much zeal for the new and Contempt for what is old; From putting knowledge before wisdom, Science before art, and cleverness before common sense; Good Lord, deliver us." Since the logo of Progressive Education Society is "ज्ञानमयो भव", which is a mantra from "Rigveda", this Research Journal established by Progressive Education Society, Pune is named as "ज्ञानमय". It means full of knowledge, full of research. I think that, this Research Journal will give a new platform for young scientists in the field of education (School education, College education, higher education and Medical education etc.) to publish their research before the vast audience.

It is up to the readers to appreciate these research articles if they feel so. Initially we have decided that this research journal will be published quarterly. Later on, we may increase the frequency of its publication. I thank all the members of Editorial Board and the authors who have submitted their valuable research articles for this Research Journal.

It is worthy to note that this Research Journal will be released by Parampujya Sadguru Shri Aniruddha Bapu who is a well known researcher in the field of Medicine and ancient Indian literature. Hon'ble Sadguru Shri Aniruddha Bapu is M.D. (Medicine) was a reputed and practicing Physician in Mumbai. He has got vast knowledge of Modern Medicine, Ayurved and Homeopathy as well. He has also got vast knowledge of Information Technology and human Psychology. This is a rare and unique combination. It is matter of fortune, that this Research Journal, which is a brain child of Parampujya Sadguru Shri Aniruddha Bapu, is released by himself on this auspicious day. I thank him profusely and pray for his blessings.

## **INDEX**

• Large Broad Ligament Leiomyoma Prof. Dr. Gajanan R. Ekbote, Abhijit Powar, Namrata Joshi	07
<ul> <li>Digital Herbarium of Angiospermic Tree Species from Western Ghat Regions of Maharashtra Rajendra S. Zunjarrao, Rajkumar B. Barmukh, Anita S. Kindre</li> </ul>	11
<ul> <li>Karyotype Analysis of Some Fresh Water Fishes of Mula and Mutha River Pune, Maharashtra Sanjay S. Kharat, Nitin S. Sawant, Kishor S. Sonawane</li> </ul>	14
<ul> <li>A Vision Based Approach for Optimal Real Time Road Traffic Control Application</li> <li>Swati N. Divatankar, A. D. Shaligram, Umesh N. Hivarkar</li> </ul>	22
Indian Banking Industry: Growth and Challenges     Vijayalakshmi Srinivas	25
• An Up-Swing of M-Commerce In India Nivedita Ekbote,	29
• Use of Cognitive Femtocell in GSM White Space Spectrum Kalyani R. Joshi	34
• Patents vis-à-vis Health – the Novartis Issue: An Analysis Sunita Adhav	38
• Study of Antihyperglycemic, Antihyperlipidemic and Nephroprotective Activity of <i>Cassia Auriculata L.</i> Extract in Streptozotocin Induced Diabetic Rats. Deepti D. Bandawane, Neelam K. Mhetre	43
• ICT in Higher Education : A Case Study Neelima Kulkarni, Sneha Ogale	50