

## RESUME

### Personal Information:

Name : **Dr. Alak Kumar Singh**

Father's Name: Shri Jawahar Singh

Date of Birth : September 2, 1969



Permanent Address: Type IV/ D-44, West Campus,  
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Nationality: Indian

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### Academic Qualification:

- High School from U.P. Board 1984 - First DIV
- Intermediate from U.P. Board 1986 - First DIV
- B. Tech. in Chemical Technology (Food Technology) from HBTI Kanpur (C.S.J.M. Univ. Kanpur) 1993 - FIRST DIV
- M. Tech. in Chemical Technology (Food Technology) from HBTI Kanpur (C.S.J.M. Univ. Kanpur) 1995 - FIRST DIV With Distinction
- Ph. D. in Chemical Technology (Food Technology) from HBTI Kanpur (Gautam Buddh Technical Univ. Luck now) – 2013

### Teaching Experience:

- Lecturer from 29. 9.1995 to 29. 9. 2000 in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)
- Lecturer (Sr. Scale ) from 29. 9. 2000 to 29. 9. 2005 in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)
- Assistant Professor from 29. 9. 2005 to 29. 9. 2008 in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)
- Associate Professor from 29. 9. 2008 to 14.10.2013 in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)
- Professor from 14. 10. 2013 to till date in Harcourt Butler Technological Institute Kanpur U.P. (An autonomous Institute of Govt. of U.P.)

### Research Undertaken:

- **“Studies on recovery, properties and utilization of citrus essential oils from waste peels”** for M. Tech. Chem. Tech. Food Tech.
- Worked in research programme on **“Controlled Atmosphere Storage of fruits”** for two years (During July 2002 to August 2004) at **Indian Institute of Technology ( I. I. T.) Kharagpur** (West Bengal)
- **“Studies on the Utilization of Whey for the production of beverages”** for Ph. D in Food Technology.

### Research Project:

- Research Project on topic **“Utilization of Whey for the Production of Instant Energy Beverage by use of Immobilize Enzyme Technology”**, has been

sanctioned by Council of Science & Technology, U.P., Lucknow. Total cost of the project is Rs 6.96 Lakhs and duration is three years.

#### **Research Guidance:**

- **B. Tech. Projects Supervised: 50**
- **M. Tech. Theses Supervised: 35**
- **No. of Published Research Papers: 8**
  - In Referred Journals: 4 (International: 2 + National: 2)
  - In Proc. of Conferences: 4
- **Reviewer of Scientific Journal:**
  - (i) Reviewer of International Scientific Journal “Journal of Food Science” of IFT USA
  - (ii) Reviewer of International Scientific Journal “Journal of Food Science Education” of IFT USA
  - (iii) Reviewer of International Scientific Journal “Comprehensive Reviews in Food Science and Food Safety” of IFT USA

#### **Summer Schools Attended:**

- Summer School on “Recent Advances in the Quality of Cereals, Pulses And Oilseeds” at Department of Agriculture Biochemistry, C. S. Azad University of Agriculture and Technology, Kanpur, May 25-June 14, 1999. Sponsored by Education Division of ICAR New Delhi.
- Short Term Training Programme on “Eco-Friendly Chemical Technologies” organized by the Department of Oil & Paint Technology, H.B.T.I. Kanpur, during March 11- 24, 2002. Sponsored by AICTE, New Delhi.
- Short Term Training Programme on “Global Industrial Concepts in Textiles” organized by the Government Central Textile institute Kanpur, from January 10 to 21, 2005 sponsored by AICTE through ISTE, New Delhi.

- Refresher course on “ Applied Mathematical Techniques for Chemical Sciences” organized by the Networking cell, H.B.T.I. Kanpur during April 11-15, 2007 sponsored by TEQIP-World bank.
- Refresher course on “Biotechnological Approaches for Chemical Process Industries ” organized by the Networking cell, H.B.T.I. Kanpur during May 11-15, 2007 sponsored by TEQIP-World bank.

**Work Shop Attended:**

- “Patent Awareness Work Shop” held on July19, 2000 at H.B.T.I. Kanpur, organized by the Department of Chemical Engineering.
- “IPR & Technology Transfer: Theme-Knowledge & Technology as the Driving Force for Economic Growth and National Productivity” held on April 8, 2002 at I.I.T. Kharagpur organized by the Department of Sponsored Research & Industrial Consultancy.
- “IPR & Technology Management ” held on January 3, 2003 at I.I.T. Kharagpur organized by the Department of Sponsored Research & Industrial Consultancy.
- Workshop on “Computer Aided Engineering: Special focus on finite element analysis technique and dynamic simulation technique” organized by the Networking cell, H.B.T.I. Kanpur during June 8-10, 2007 sponsored by TEQIP-World bank.
- Workshop on “Modern Analytical Techniques for Research and Industry” organized by the Department of Chemistry and Networking cell, H.B.T.I. Kanpur during Nov. 10 -14, 2008 sponsored by TEQIP-World bank.
- Workshop on “Eco-Friendly Wet Processing in Textile Industry” organized by the Department of Textile Chemistry, U.P.T.T.I., Kanpur during Nov. 24 -26, 2008 sponsored by TEQIP-World bank.

- Workshop on “Textile Testing” organized by the Department of Textile Technology, U.P.T.T.I., Kanpur during Feb. 3 -5, 2009 sponsored by TEQIP-World bank.
- Workshop on “Testing of Adulterating Materials in Food Items” organized by the Department of Basic Science, U.P.T.T.I., Kanpur during Mar. 2 -4, 2009 sponsored by TEQIP-World bank.

**Associated Academic Experience:**

- Member Board of Studies for Food Technology discipline at HBTI Kanpur.
- P.G. Coordinator in the Department of Biochemical Engineering & Food Technology for Food Technology discipline.
- Faculty advisor of Association of Biochemical Engineers & Food Technologists HBTI Kanpur
- Managing Summer Training of undergraduate and postgraduate Food Technology students of the Department.
- Managing Educational Tour of final year undergraduate Food Technology students of the Department.
- Worked with senior faculty member in a Bakery Course organized by STEP-HBTI Kanpur for Entrepreneurial Development and Training Programme.
- Examiner in Food Technology Theory and Practical papers of U.P.Technical University, Lucknow U.P.
- Examiner in Food Technology Theory and Practical papers of C.S.J.M. University, Kanpur U.P.

- Examiner in Food Technology Theory and Practical papers at undergraduate and postgraduate level of Dr. B. R. Ambedkar, University, Agra U.P.
- Examiner in Food Technology Theory papers at undergraduate level of Bundelkhand University, Jhansi, U.P.
- Examiner in Food Biotechnology Theory papers at undergraduate level of Integral University, Lucknow U.P
- Examiner in Food Technology Theory papers at diploma level of Board of Technical Education, Government of Goa.
- Worked as co-convener in Vocational Training Programme on “Preservation and Processing of Summer Seasonal Fruits and vegetables” organized by BEFT Department, HBTI Kanpur under TEQIP-World Bank Project during May 8 – 20, 2006

**Associated Administrative Experience:**

- Acted as Warden of first year B. Tech. boys hostel (LV Old hostel East Campus) during Feb. 2005 to July 2007
- Acted as Warden of Second year B. Tech. boys hostel (WCH II Hostel West Campus) during August 2007 to July 2009
- Departmental coordinator of TEQIP-World Bank project.
- Departmental representative in Industry Institute Partnership Cell.
- Acted as Assistant Superintendent of Examination in U. P. Technical University Semester Examination at HBTI Kanpur Centre for 4 years
- Acted as Group Leader of Centre Controllers appointed by U.P. Technical University Lucknow for four reputed Engineering colleges in Kanpur city during Semester examinations from 2008 to 2012.
- Acted as Assistant Dean Student Welfare, at Institute level, HBTI Kanpur w.e.f., 23.7.2009 to 29.9.2014.
- Acted as Member of Training & Placement Cell for Chemical Engineering & Chemical Technology (Bio, Food, Oil, Paint, Plastic & Leather Technology) branches w.e.f., June 2009 to till Dec. 2010

- Appointed as Officer - in- Charge Security of, HBTI Kanpur w.e.f., 02.02.2010 to 2. 7. 2011
- Acted as Member in Proctorial Board of Institute w.e.f., July 26, 2009 to 29.9.2014
- Looking the responsibility of Member of academic council at National Sugar Institute Kanpur from 2012 to till 2015.

### **Contribution in Organizing Seminar:**

- Acted as Convener in a National Seminar on “Emerging Trends in Bioprocess & Food Processing Industries: Genesis 2006” organized by Biochemical Engineering & Food Technology Department, HBTI Kanpur , during March 25-26, 2006 sponsored by U. P. Pollution Control Board, Lucknow.
- Acted as Convener in a National Symposium on “Recent Technological Developments in Bioprocess & Food Processing Industries: Genesis 2009” organized by Biochemical Engineering & Food Technology Department, HBTI Kanpur & Association of Biochemical Engineers & Food Technologist, during Feb., 14-15, 2009 sponsored by Ministry of Food Processing Industries, Govt. of India, New Delhi
- Acted as Convener in a National Seminar on “Challenges and Prospects in Bio-energy & Food security” organized by Biochemical Engineering & Food Technology Department, HBTI Kanpur , on March 9, 2011 sponsored by U. P. Pollution Control Board, Lucknow.

## **Publications:**

### **In Referred Journals**

#### **International Journals:**

- A. K. Singh, H. K. Sharma, P. Kumar and B. Singh (1999). " Physico-chemical changes in white button mushroom (*Agaricus bisporus*) at different drying temperatures" International Journal of Mushroom Research and Development, Mushroom Res. 8(2) : 27-29
- Alak Kumar Singh, Shishir Sinha and Karunakar Singh (2009) "Study on  $\beta$ -Galactosidase Isolation, Purification and Optimization of Lactose Hydrolysis in Whey for Production of Instant Energy Drink" International Journal of Food Engineering, Vol. 5 (2) : Article 5
- Alak Kumar Singh and Karunakar Singh (2012) "Study on Hydrolysis of Lactose in Whey by use of Immobilized Enzyme Technology for Production of Instant Energy Drink" Advance Journal of Food Science and Technology, Vol. 4 (2)
- Alak Kumar Singh and Karunakar Singh (2012) "Utilization of Whey for the Production of Instant Energy Beverage by Using Response Surface Methodology" Advance Journal of Food Science and Technology, Vol. 4 (2)

#### **National Journals:**

- Alak Kumar Singh and T. K. Goswami, (2006). "Controlled Atmosphere Storage of Fruits and Vegetables :A Review" , J. Food Sci. Technol., 43 (1), pp 1-7
- Ashish Khare, Amit Pratap Singh, Ravindra S. Patil, K. Singh and Alak Kumar Singh (2007) "Utilization of Whey into Beverages: A review", Beverage & Food World, 34 (8), pp 27-32



## **In Proc. of Conferences**

- A. K. Pathak and Alak Kumar Singh (2000) “ Development of Vegetarian Cake Recipe” Research Paper presented in Silver Jubilee Seminar on Emerging Trends in Food Processing: Technology and Value Addition, Organized by Deptt. of Food Technology, Bundelkhand University, Jhansi (U.P.), May 26-27, 2000 (pp.28).
- Sharma H.K, Kumar P, Panesar P.S.,and Singh A. K. (2000). “Recombined/Reconstituted Milk and Fresh Milk: A Futuristic View” Research Paper presented in Silver Jubilee Seminar on Emerging Trends in Food Processing: Technology and Value Addition, Organized by Deptt. of Food Technology, Bundelkhand University, Jhansi (U.P.), May 26-27, 2000 (pp.34).
- Katiyar Shikha, Roy R, Pathak A.K. and Singh Alak Kumar (2000). “Osmotic dehydration of Fruits” Poster Paper presented in “Silver Jubilee Seminar on Emerging Trends in Food Processing: Technology and Value Addition”, Organized by Deptt. of Food Technology, Bundelkhand University, Jhansi (U.P.), May 26-27, 2000 (pp.47).
- Singh A. K, Sharma H. K., Pal P., Kumar P., Panesar P. S. and Singh H. (2000). “ Physico-chemical changes in white button mushroom (*Agaricus bisporus*) at different drying temperatures” Poster paper presented in “International conference on Microbial Biotechnology, Trade and public Policy” organized by the Department of Microbiology, Osmania University, Hyderabad (A.P.), during 15-17 July, 2000 (Abstract No. BT-P-13, pp-105).

### **Last Salary Drawn:**

- Pay Scale: Rs. 37400 – 67000, (Pay Band- 4) Basic Pay: Rs. 63000 /-

**Knowledge of working on PC / work station and Software Packages:**

(i) MATLAB

(ii) Internet

(iii) MSOFFICE (MS Word/Excel/PPT)

**Membership of Professional Bodies:**

- Life Member: Association of Food Scientists and Technologists (India).
- Life Member: Oil Technologists Association of India (OTAI).
- Life Member: Association of Biochemical Engineers & Food Technologists.
- Life Member: International Harcourtian Alumni Association.
- Member: Indian society for Technical Education (ISTE).
- Honorary Secretary, Samajik Jan Kalyan Samit

Date:

(Alak Kumar Singh)

