

CURRICULUM VITAE

Dr(Ms). AAMARPALI RATNA PURI



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Career Objective:

Seeking a challenging opportunity to prove and enrich my teaching and research skills through consistent hard work & result-oriented performance and to be a valuable asset to the organization.

Academic Qualification:

Ph.D in faculty of applied chemical sciences, from Guru Nanak Dev University, Amritsar, Punjab, India. Date of award of degree: 03/08/2006.

Title of Ph.D thesis was “**Estimation of Inorganic salts and amino acids using near infrared spectroscopy and their effect on the rheological characteristics and crystallization of sugar**”.

Exam/Year	Board/University	Subjects Offered	% Age
M.Sc.II 2000-2001	Guru Nanak Dev University	Chemistry (Specialization in advanced Course of Inorganic, Physical and Spectroscopic Chemistry)	62.7
B.Sc.-III 1998-99	Guru Nanak Dev University	Chemistry, Botany, Zoology, English, Punjabi	64.7
10+2(med) 1995-96	Punjab School Education Board	Chemistry, Biology, Physics, English, Punjabi	63.8

• **Ph.D Studies includes:**

1. Online estimation of various impurities in cane juice using near-Infrared Spectrophotometer of Elico.
2. Study of flow behaviour of substances at different temperatures using Brookfield Rheometer.
3. Growth rate of sucrose crystals using Vacuum pan

Academic scholarships/ awards/ medals at school/ college level received.

Institution	Class	Scholarships/ Awards/Medals
National Public School, Kapurthala, Punjab, India.	2 nd	Monthly Scholarship for scoring 98% marks with 1 st position in aggregate
National Public School, Kapurthala, Punjab, India.	8 th	Monthly Scholarship for scoring 96% marks with 1 st position in aggregate
Karate du Kuziki, Kapurthala, Punjab, India.	10+2	Silver medal in 6 th open Karate Championship
Karate du Kuziki, Kapurthala, Punjab, India.	10+2	2 nd prize in Kata in 6 th open Karate Championship
Government College Kapurthala, Punjab, India.	BSc-III	Merit certificate for standing first class first in college (University Exams)
Government College Kapurthala, Punjab, India.	BSc-III	Gold medal for standing first class first in college (University Final Exams)
Government College Kapurthala, Punjab, India.	BSc-III	Gold medal for scoring highest marks in Chemistry in college (University Final Exams)
Guru Nanak Dev University, Amritsar, Punjab, India.	Ph.D	Merit certificate in the 39 th Annual convention of Indian chemists, guntur, (Andhra Pradesh)
Guru Nanak Dev University, Amritsar, Punjab, India.	Ph.D	2 nd prize in poster presentation at National conference on modern trends in chemical science and technology, D.A.V college Jalandhar, Punjab, India.

Computer Knowledge:

Working knowledge of Ms Word, Ms Dos, Microsoft Excel, Power Point, Acrobat and Internet.

Work Experience:

1. Four years of research experience in Faculty of Applied Chemistry in Guru Nanak Dev University, Amritsar as research fellow.
2. Reviewer of Journal of Food Science (USA) since 2002.
3. Teaching experience of theoretical as well as practical chemistry to B.tech classes in the Dept of Applied Chemical Sciences and Technology in Guru Nanak Dev University for two years along with research.
4. Teaching experience of session 2006-07 as chemistry lecturer in Lyallpur Khalsa college Jalandhar.

DETAILS OF RESEARCH WORK DONE:

List of publications

National

1. S. Kaur, R.S.S. Kaler and **Aamarpali**. (2004) Effect of polysaccharides on rate of crystallization of sucrose, Indian Sugar, Vol (LIV) page 265-268 July.
2. S.Kaur and **Aamarpali**. (2004) Quantitative estimation of phosphate in cane juice using near infrared Spectrophotometer, Indian Sugar, Vol (LIV) page 513-517. Oct.
3. **Aamarpali Ratna Puri**. (2006) Effect of sulfate on the rate of crystallization of sucrose, Proceedings of seminar by STAI on 30th Jan 2006 at FICCI, New Delhi. Article 6, page 41, Jan.
4. **Aamarpali Ratna Puri** and S. Kaur. (2006) Estimation of silica in cane juice using near infrared spectroscopy, Cooperative sugar, Vol (37): No 6 page 29-33, Feb.
5. **Aamarpali Ratna Puri** and S. Kaur. (2006) Study of the effect of phosphate on the rheological properties of molasses at five different temperatures, Cooperative sugar, Vol (37): No 10 page 15-20, June.
6. **Aamarpali Ratna Puri** (2006) Effect of oxalic acid on the rate of crystallization of sucrose, Cooperative sugar, Vol (37): No 11 page 17-20, July.
7. **Aamarpali Ratna Puri** and Sneha Lata. (2006) Role of electronics in sugar technology, International Conference on Advances in electronics and communication technology, K.C college of Engineering and IT, Nawanshahr, Punjab, CD Rom, 15-16th Dec.

8. **Aamarpali Ratna Puri** and Sneh Lata. (2006) How to write thesis, Education New Horizons, Vol (IV) pages 29-31, Oct-Dec.
9. **Aamarpali Ratna Puri** and Sneh Lata (2006). Plagiarism, Education New Horizons, Vol (IV) pages 32-34, Oct-Dec.
10. **Aamarpali Ratna Puri** (2007) Quantitative analysis of starch and dextran in cane juice using near infrared spectroscopy, Cooperative sugar, Vol (38): No 6 page 31-36, Feb.
11. **Aamarpali Ratna Puri** (2007) To study the effect of glycine on the rheological properties of molasses at five different temperatures, Indian Sugar, Vol (LVII) page 11-18, June.
12. Shaifali Rachna Puri, Manjit K. Saini and **Aamarpali Ratna Puri** (2007). Apparent changes take place in the personality of adolescents after coming in contact with cinema, The CTE (College of Teacher Education) National Journal, Vol V No. 1 Page 59-62, Jan-June.
13. Ranu Joshi and **Aamarpali Ratna Puri** (2007). Innovations in methodology of training teachers of 21st century, The CTE (College of Teacher Education) National Journal, Vol V No. 1 Page 72-76, Jan-June.
14. **Aamarpali Ratna Puri**, Effect of alanine on the rate of crystallization of sucrose, submitted.

International

1. S..Kaur, R.S.S. Kaler and **Aamarpali**. (2002) Effect of starch on the rheology of molasses, Journal of Food Engineering (U.S.A), Vol (55) page 319-322.
2. **Aamarpali Ratna Puri** and S.Kaur. (2005) Effect of phosphate and silica on growth rate of crystallization of sucrose, International Journal of food Engineering, Vol (1): No 5 Article 4. 12th Dec.
3. **Aamarpali Ratna Puri** (2007) Estimation of Alanine and Glycine in Cane Juice Using Near Infrared Spectroscopy, International Journal of food Engineering, Vol (3): No 1 Article 2. 26th March.

List of Conferences in which abstract accepted and presented

1. S. Kaur and **Aamarpali**, Quantitative estimation of phosphate in cane juice using Near–Infrared spectrophotometer, 5th Punjab Science congress, Thapar institute of Engineering (Patiala), 7-9th Feb 2002.
2. *S. Kaur and **Aamarpali**, Quantitative estimation of silica in cane juice using Near – Infrared Spectrophotometer, 39th Annual Convention of Indian Chemists, Guntur (Andhra Pradesh), 22-26th Dec 2002.
3. S. Kaur and **Aamarpali**, Effect of phosphate on the rheology of molasses, 7th Punjab Science congress, Guru Nanak Dev University (Amritsar), 7-9th Feb 2004.
4. **Aamarpali** and S. Kaur, Quantitative estimation of alanine in cane juice using Near-Infrared Spectrophotometer, 8th Punjab Science congress, Punjabi University, Patiala, 7-9th Feb 2005.
5. **Aamarpali** and S. Kaur, To study the effect of alanine on the rheological properties of molasses at different temperatures, National Symposium on future challenges in chemical Sciences (FCCS-05), Himachal Pradesh University, Summer Hill Shimla, 9-11th March 2005.
6. ** **Aamarpali** and S. Kaur, Quantitative estimation of starch and dextran in cane juice using near infrared spectroscopy, National conference on modern trends in chemical science and technology, D. A. V. College, Jalandhar, Punjab, 15-17th October 2005.
7. **Aamarpali** and S. Kaur, To study the effect of oxalic acid on the rheology of molasses at different temperatures, National Conference on Thermodynamics of chemical and Biological systems, Guru Nanak Dev University, Amritsar, 28-30th December 2005.
8. **Aamarpali Ratna Puri**, Effect of sulfate on the rate of crystallization of sucrose, National Seminar on “Production of Refined Grade Bold Grain Sugar of 25-30 ICUMSA colour, FICCI, New Delhi, 30th Jan 2006.
9. **Aamarpali Ratna Puri**, Effect of oxalic acid on the rate of crystallization if sucrose, 9th Punjab Science congress, Guru Nanak Dev Dental College , Sunam , Punjab, 7-9th Feb 2006.
10. **Aamarpali Ratna Puri**, Role of electronic in sugar technology, International Conference on Advances in electronics and communication technology, K.C college of Engineering and IT, Nawanshahr, Punjab, 15-16th Dec 2006.

*Got merit certificate for paper presentation.

**Got second prize in poster presentation.

List of Conferences in which abstracts accepted but not presented

1. **Aamarpali**, S. Kaur and B.S.Lark, To study the effect of silica on the rheological properties of molasses at different temperatures, 3rd National Conference of thermophysical Society India (NCTP) –2005, Goa University, Taleigo Plateu Goa, 19-20th Jan 2005.
2. **Aamarpali**, Near Infrared Spectrophotometric analysis of glycine in cane juice, Analytical research forum, Plymoth, UK, 18-20th July 2005.
3. **Aamarpali Ratna Puri** and S. Kaur, Study of the effect of glycine on the rheological properties of molasses at different temperatures, The International Symposium on Food Rheology and Structure (ISFRS-2006), Institute of Food Science and Nutrition, ETH Zurich, 8092-Zurich, Switzerland, Feb 2006.

List of manuscript reviewed (Journal of Food Science.U.S.A)

1. Dondeena G.Bradley and David B.Min, Singlet oxygen detection in skimmilk by electron spin resonance spectroscopy, The Ohio State University. 2015 Fyffe Road. Columbus, OH 43210.
2. M.Ukai and Y.Shimoyama, An electron spin resonance study of evolution of organic free radicals in irradiated pepper during heat treatment, Hokkaido Univ of Education, Hokodate 040-8567, Japan.
3. Yasushi Endo, Misako Tagiri-Endo and Kenichiro Kimura, Rapid determination of iodine value and sponification value of fish oils by near infrared spectroscopy, Graduate school of agricultural science, Tohoku University 1-1, Tsutsumidori-Amamiyamachi, Aoba, Sendai 981-8555, Japan.
4. Musleh Uddin, Emiko Okazaki, Sandor Turza and Yutaka Fukuda, Rapid determination of intact sardine fat by NIRS using surface interactance fibre probe, Division of Food Technology and Biochemistry National Research Institute of Fisheries Sciences, 2-12-4 Fukura, Kanazawa, Yokohama 236-8648, Japan.

Personal Details :

Name :- AAMARPALI RATNA PURI
Sex :- FEMALE
Mother's Name :- SNEH LATA
Father's name :- TEJ BHADHUR PURI
Date of Birth : 24TH FEBRUARY 1978
Marital Status : Unmarried
Languages : English, Hindi, Punjabi
Hobbies : Doing research, study, cooking, gardening and listening music.
Key Strength : Consistence hard work and good problem solving skills with ability to understand things quickly.

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