CurriculumVitae

Name : S. JOHN DON BOSCO

Area of specialization :Agricultural Processing Engineering

Date of Birth : 7th May 1959

Address : Department of Food Science & Technology.

Pondicherry University, Puducherry – 605014.

Designation : Professor & Head of Department

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Educational Qualification

Degree/Diploma	Class/Division	Year	Subject with	Name of the
			field of	University/
			Specialization	Board
Ph.D.	Distinction	1997	Agriculture	Tamil Nadu
	(95.9%)		Process	Agricultural
			Engineering.	University,
				Coimbatore

THESIS TITLE: Optimisation of modified atmosphere package parameters for coconut fresh kernel.

Topical Research: (i). Studies on vacuum drying of desiccated coconut.

(ii). Development of oil palm depulper.

Employment record:

Employer	Designation with Institution and place of work	Period	
		From	To
President, ICAR	Scientist, CPCRI, Kasargod,	29.12.86	17.05.2007
	Kerala		

Vice-chancellor	Professor, SRM University	18.05.07	07.05.2009
Vice-chancellor	Reader,	08.05.2009	Cont.
	Pondicherry University		

Awards received:

1	Recipient of ICAR awards for outstanding multi-disciplinary team research in
	agriculture and allied sciences for the biennium 2003 – 2004
2	Received certificate of appreciation for organizing a Summer School on "Harvest
	and Post Harvest Technology of Plantation Crops" as Course Director which was
	conducted as at Central Plantation Crops Research Institute, Kasaragod, Kerala from
	23.7.98 to 12.8.98.
3	Received the best site coordinator for the IPGRI – COGENT sponsored project on
	'Developing sustainable coconut-based income generating technologies in poor
	rural communities in India.
4	Received "Associated Agencies Medal" awarded in recognition of the performance
	in the B.E.(Ag) examination held by the TNAU in the faculty of Agrl. Engg. during
	1983-84.
5	Recipient of ICAR - Senior Research fellowship for the period July'94 to June'97 to
	carry out Ph.DProgramme.

Training in India and abroad:

- Attended training programme on "Coconut Processing Technology" at Office of the Directorate General of Estate Crops Production, Jakarta, Indonesia during 10 – 15 March, 2003.
- 2) Attended the XXVII Foundation Course on `Agricultural Research Project Management' conducted at NAARM, Hyderabad during October 14, 1987 to March 1, 1988 and obtained Grade A (80% and above) in the performance evaluation.
- 3) Attended a summer institute on modeling of technologies for controlled atmosphere storage system for fruits and vegetables at G.B.P.U.A.T, Pantnagar for the period of 21 days from June 21, 1995 to June 11, 1995.

Major contribution during professional career:

I. SIGNIFICANT CONTRIBUTIONS IN RESEARCH:

Category	Title	Details	Additional Information
Novel	Process for making	Technology has been	Bosco, S. J. D., George
technology	coconut chips	commercialized.	V. Thomas and A.
development	As PI	Product is available in	Shamina
		the market.	
Novel	Process for making	Technology has been	Bosco, S. J. D., George
technology	snowball tender	commercialized.	V. Thomas and A.
development	coconutAs PI	Product is available in	Shamina
		the market.	

Novel	Development of	Technology is ready	Bosco, S. J. D. and B.
technology	puffed coconut	for applying for the	Priya
development	kernel slices As PI	patent	
Novel	Process for MAP of	Technology is yet to be	Bosco, S. J. D., George
technology	fresh coconut kernel	commercialized.	V. Thomas and A.
development	As PI		Shamina
Novel	Process for canning	Technology is yet to be	Bosco, S. J. D., George
technology	of fresh coconut	commercialized.	V. Thomas and A.
development	kernel As PI		Shamina
Novel	Process for canning	The technology is yet	Bosco, S. J. D., George
technology	of paste of fresh	to be commercialized.	V. Thomas and A.
development	coconut kernel		Shamina
	As PI		
Novel	Process for fluidized	Technology is yet to be	Bosco, S. J. D., George
technology	bed drying of	commercialized.	V. Thomas and A.
development	disintegrated fresh		Shamina

	coconut kernel As		
	PI		
Process	Process for the	Fuel briquettes were	S. J. D. Bosco
	production of the	made in 2 tonne	
	fuel briquette from	capacity machine at	
	tender coconut husk	Gujarat.	
	as PI		
Prototype	Fluidized bed dryer	The dryer is of capacity	Bosco. S. J. D
	for drying	200 coconuts per	
	disintegrated	batch. Drying time is 3	
	coconut kernel	hours	
	As PI		
Prototype	Utilization of	Furnace to burn	Singh, T. V., S. J. D.
	coconut pith as	coconut pith in	Bosco and A. C. Mathew
	fluidised fuel	suspension has been	
	As CO-PI	developed. 400 nuts	
		copra dryer suitable to	
		the furnace has been	
		developed.	
Prototype	Utilization of	Coconut pith in	Singh, T. V., S. J. D.
	coconut pith for	combination with	Bosco and A. C. Mathew
	biogas production	cowdung gives higher	
	As CO-PI	methane content	
		biogas, while coir pith	
		alone does not produce	
		any gas.	
Prototype	Development of	Capacity is 2500	Madhavan. K and S. J. D.
	hybrid copra dryer	coconut/batch. It is an	Bosco
	of solar cum	integrated system	
	electrical dryer with	where we can use	
	agricultural waste as	either solar, electrical	
	third source of	or waste heat energy	
	energy As CO-PI		

Prototype	Solar tunnel multi	Capacity of the dryer is	Madhavan. K and S. J. D.
	purpose dryer	2500 coconut/batch.	Bosco
	As CO-PI	The duration of drying	
		is 3 days.	
Process	Preservation	Methods used are	Mathew. A. C., S. J. D.
	techniques were	Brushing or Spraying,	Bosco and Singh, T. V.
	developed for	Dipping,	
	preserving coconut	Soaking/Steeping, Dip	
	stem and its timber,	Diffusion, Double	
	which will be put to	Diffusion and Hot and	
	various end uses. As	Cold Bath method.	
	СО-РІ		

II.External, Consultancy Projects, Contract Research (Other than the Institute)

I	Development of process for making snow ball tender nut. (Rs. 5.25 lakh) (Coconut
	Development Board (Govt. of India), Kochi.) – as PI
II	Design of solar cum electrical dryer with agricultural waste as third source of
	Energy (Rs 5.00 lakh) (The Dept. of Electronics, Min. of Science and Technology
	(Govt. of India). – as CO-PI
III	Development of process for value addition and quality improvement of coconut (Rs.
	15.99 lakhs) (NATP) – as PI
IV	Development of process for value addition and quality improvement of arecanut
	(Rs. 15.99 lakhs) (NATP) – as Co-PI
V	IPGRI – COGENT sponsored project on 'Developing sustainable coconut based
	income generating technologies in poor rural communities in India (Rs. 18 lakh) -
	as Co-PI
VI	Institution Village Linkage Programme (Rs. 34.25 lakh) (NATP) – as Co-PI

III.Invited key speaker in International scientific meeting:

Delivered lecture on 'State of art technologies for processing of coconut based niche products' in XL COCOTECH meting held during 1-5, July 2003 at Colombo, Sri Lanka organized by APCC, Indonesia.

IV.Convener or co-convener of seminars/symposia/conference/summer or winter school/ training programme / refresher course

- 1. Organized of a summer school on "Harvest and Post Harvest Technology of Plantation Crops" as Director of summer school from 23.7.98 to 12.8.98.
- 2. Organized a training programme on "Post Harvest Technology of Horticultural crops of Konkan Region" as Course Director. The course was organised in **five** batches during 31.10.2000 to 14.12.2000. Each batch duration was 7 days.

LIST OF IMMPORTANT PUBLICATIONS

A. Patent

Patent	Process for the	Patent Application No.	Bosco, S. J. D.
	production of Sweet	0037/Del/2001. Received	
	Coconut Chips as PI	First Examination Report	
Patent	Process for the	Patent Application No.	Bosco, S. J. D. and
	production of Snow Ball	0038/Del/2001. Received	K.U.K. Nampoothiri,
	Tender Coconut as PI	First Examination Report	
Patent	Solar cum electrical	Applied for patent.	Madhavan, K. and S.
	dryer with agrl. waste as	Application has been filed	J. D. Bosco&
	third source of energy as	with patent authority as	Department of
	Co-PI	Complete Application.	Electronics.
Patent	Development of snow	Applied for patent.	Bosco, S. J. D. and T.
	ball tender coconut	Application has been filed	Vidhan Singh
	machine	with patent authority as	
		Complete Application.	

B. Research paper published:

Authors	Year	Title	Journal
Mathew, A. C.,	2000	Technology to produce	Indian coconut journal. Special
TVidhan Singh		biogas from coir pith	issue for Cocotech Meeting /
&S J D Bosco			International Coconut
			Conference 31(3):46 – 48
Mathew, A. C.,	2000	Coconut timber utilization.	Indian coconut journal. Special
T Vidhan Singh			issue for Cocotech Meeting /
&S J D Bosco			International Coconut
			Conference 31 (3):51 – 54.
Bosco, S. J. D.,	2002	Sweet coconut chips – a	Indian Coconut Journal.
George V.		new coconut kernel based	32(12):4 - 5.
Thomas and A.		product.	
Shamina			
Madhavan, K.,	2002	Design of an automation	Proceedings of the XV Kerala
S.J.D. Bosco		system for a hybrid dryer	Science Congress. pp 488 to
and Hareesh G		for coconut.	493
S.			
Bosco, SJD and	2002	Modeling of coconut	Journal of Plantation Crops,
C. V. Sairam.		processing complex	(Suppl.) 30: 655 – 662.
		through integrated system.	
K.Madhavan and	2002	Design of a forced	Journal of Plantation Crops,
SJD Bosco.		convection solar cum	(Suppl.) 30: 690-696.
		electrical dryer	
Rethinam, P. and	2003	Production of white copra	COCOINFO
S. J. D. Bosco.		for good quality edible	INTERNATIONAL. 10 (1): 26
		copra and coconut oil.	<i>− 33</i> .

Madhavan, K.	2004	Development of solar	Journal of Plantation Crops, 32
and S.J.D.Bosco		tunnel dryer for plantation	(Suppl):: 428-432.
		crops	
Subaharan, K.,	2004	Occurrence of weevil,	The Planter. 80 (942): 581-583
Velmurugan, R.,		Dioclandrastigmaticollis in	
Bosco, S.J.D.,		coconut palms in	
Sairam, C.V.,		Pondicherry,.	
Arulraj, S. and			
Rajagopal, V.			
C.V.Sairam,	2004	Technology Prioritization	Journal of Plantation Crops, 32
S.Arulraj and		for improving coconut	(Suppl.):465-473.
S.J.D.Bosco		productivity in India.	
Madhavan, K.	2006	Comparative efficiency of	Journal of Plantation Crops, 34
and S.J.D.Bosco		soloarenergy based dryers	(3): 675 - 678
		in relation to copra drying	
Balasubramania	2012	Optimization of process	Food and Nutrition
n, S., Paridhi,		conditions for the	Sciences, 3(7), 925.
G., Bosco,		development of tomato	
S.J.D., &		foam by box-behnken	
Kadam, D. M.		design.	
Bhol S., and	2013	Bhol, S. (2013).	Food Science, 2(5).
Bosco, S.J.D.		Enrichment of yeast	
		leavened bread by	
		pomegranate bagasse	
		powder.	
Mir, S. A.,	2013	Effect of Soaking	Food and Nutrition Sciences,
&Bosco, S. J. D		Temperature on Physical	2013, 4, 282-288.
		and Functional Properties	
		of Parboiled Rice Cultivars	
		Grown in Temperate	
		Region of India.	
		1	

Balasubramania	2013	Thermal properties of	Advances in Applied
n, S., Devi, A.,		ambient ground fenugreek	Research, 5(1), 37-42.
Singh, K. K.,		(Trigonellafoenum-	
&Bosco, S. J. D.		graceum L.).	
Mir, S. A.,	2013	Evaluation of physical	International Food Research
Bosco, S. J. D.		properties of rice cultivars	Journal 20(4): 1521-1527
and Sunooj, K.		grown in the temperate	(2013).
V.		region of India.	
Cynthia. S. J.	2013	Process Optimization for	Food Science, 2 (4), (2013)
and Bosco		Tamarindus Indica. L Pulp	ISSN: 2277-8179.
S.J.D.		Extraction Using Response	
		Surface Methodology.	
Bhol, S.,	2014	Influence of malted finger	LWT - Food Science and
&Bosco, S. J. D.		millet and red kidney bean	Technology 55 (2014) 294-300.
		flour on quality	
		characteristics of developed	
		bread.	
Mir, S. A.,	2014	Cultivar difference in	Food Chemistry 157, 448–456.
&Bosco, S. J. D.		physicochemical properties	
		of starches and flours from	
		temperate rice of Indian	
		Himalayas.	
Padmaja, N.,	2014	Preservation of jujube fruits	Indian Journal of Science
&Bosco, S. J. D.		by edible Aloe vera gel	Research and
		coating to maintain quality	Technology, 2(3), 79-88.
		and safety.	
Agarwal, R. K.,	2014	Effect of extraction	Journal of Plantation Crops
&Bosco, S. J. D.		processes on	(India). 42(3).
		physiochemical properties	
		and antioxidant activity of	
		virgin coconut oil.	

Agarwal, R. K.,	2014	Effect of Extraction	Indian Journal of Nutrition and
&Bosco, S. J. D.		Processes on Antioxidant	Dietitics., 51, 408
		Activity of Virgin Coconut	
		Oil.	
Agarwal, R. K.,	2014	Optimization of Aqueous	Journal of Lipid Science and
&Bosco, S. J. D.		Enzymatic Extraction of	Technology,46 (2).
		Virgin Coconut Oil through	
		Coconut Milk.	
Agarwal, R. K.,	2014	Optimization of viscozyme-	Asian Journal of Dairy & Food
&Bosco, S. J. D.		1 assisted extraction of	Research. 33 (4): 276-284
		coconut milk and virgin	
		coconut oil	
Shah, M. A.,	2014	Plant extracts as natural	Meat science, 98(1), 21-33.
Bosco, S. J.		antioxidants in meat and	
D., & Mir, S. A.		meat products.	
Manonmani, D.,	2014	Effect of Red Kidney Bean	Open Access Library Journal 1,
Bhol, S.,		(Phaseolus vulgaris L.)	1-6
&Bosco, S. J. D.		Flour on Bread Quality	
Santhalakshmy,	2015	Effect of inlet temperature	Powder Technology 274 37–43.
S., Bosco, S. J.		on physicochemical	
D ., Francis, S.,		properties of spray-dried	
&Sabeena, M.		jamun fruit juice powder.	
Mir, S. A.,	2015	Rice: Parboiling and	International journal of food
Bosco, S. J. D.,		milling properties.	engineering, 11(6), 777-787
Shah, M. A.,			
Mir, M. M.,			
&Ganai, S. A.			
Mir, S. A.,	2015	Effect of gamma irradiation	International journal of food
Bosco, S. J. D.,		on physicochemical	engineering, 11(4), 563-571.
Shah, M. A.,		properties of brown rice.	
Mir, M. M., &			
Sunooj, K. V.			

Cynthia, S. J.,	2015	Physical and Structural	International Journal of Food
Bosco S. J. D.,&		Properties of Spray Dried	Properties, 18(8), 1793-1800.
Bhol, S.		Tamarind	
		(Tamarindusindica L.) Pulp	
		Extract Powder with	
		Encapsulating	
		Hydrocolloids	
Padmaja, N.,	2015	Physico chemical analysis	International Journal of
Bosco, S. J.		of sapota	Applied Sciences and
D., & Rao, J. S		(ManilkaraZapota) coated	<i>Biotechnology, 3(1), 20-25.</i>
		by edible aloe vera gel.	
Shah, M. A.,	2015	Effect of Moringa oleifera	Food packaging and shelf life
Bosco, S. J.		leaf extract on the	3, 31 – 38
D., & Mir, S. A.		physicochemical properties	
		of modified atmosphere	
		packaged raw beef.	
Mir, S. A.,	2016	Effect of puffing on	Food chemistry, 191, 139-146.
Bosco, S. J. D.,		physical and antioxidant	
Shah, M. A., &		properties of brown rice.	
Mir, M. M.			
Mir, S. A.,	2016	Variety difference in	Journal of Food Measurement
Bosco, S. J. D.,		quality characteristics,	and Characterization, 10(1),
Shah, M. A.,		antioxidant properties and	177-184.
Mir, M. M., &		mineral composition of	
Sunooj, K. V.		brown rice.	
Mir, S. A.,	2016	Process optimization and	International journal of food
Bosco, S. J. D.,		characterization of popped	properties, 19(9), 2102-2112.
Shah, M. A.,		Brown Rice.	
Mir, M. M., &			
Sunooj, K. V.			

Mir, S. A.,	2017	Physicochemical and	International journal of food
Bosco, S. J. D,		structural properties of	properties, 20(4), 821-832.
Bashir, M.,		starches isolated from corn	
Shah, M. A., &		cultivars grown in Indian	
Mir, M. M.		temperate climate.	
Mir, S. A.,	2017	Effect of apple pomace on	Journal of the Saudi Society of
Bosco, S. J. D.,		quality characteristics of	Agricultural Sciences, 16(1),
Shah, M. A.,		brown rice based cracker.	25-32.
Santhalakshmy,			
S., & Mir, M. M.			
Mir, S. A.,	2017	Technological and	Journal of the Saudi Society of
Bosco, S. J. D.,		nutritional properties of	Agricultural Sciences.
& Shah, M. A.		gluten-free snacks based on	
		brown rice and chestnut	
		flour.	
Shah, M. A.,	2017	Evaluation of shelf life of	Food packaging and shelf
Bosco, S. J. D.,		retort pouch packaged	life, 12, 76-82.
Mir, S. A., &		Rogan josh, a traditional	
Sunooj, K. V.		meat curry of Kashmir,	
		India.	
Sablania, V.,	2018	Optimization of spray	Powder technology, 335, 35-
&Bosco, S. J. D.		drying parameters for	41.
		Murrayakoenigii (Linn)	
		leaves extract using	
		response surface	
		methodology.	
Sablania, V.,	2018	Microencapsulation of	Journal of Food Measurement
Bosco, S. J.		Murrayakoenigii L. leaf	and Characterization, 1-10.
D., Rohilla, S., &		extract using spray drying.	
Shah, M. A.			

Sablania, V.,	2019	Antimicrobial and	Journal of Food Measurement
Bosco, S. J. D.,		antioxidant properties of	and Characterization, 1-10.
Ahmed, T.,		spray dried	
&Sarma, V. V.		Murrayakoenigii leaf	
		powder.	
Sablania, V.,	2019	Effect of Extraction	In Advances in Plant &
Bosco, S. J.		Temperature and Different	Microbial Biotechnology (pp.
D., &Rohilla, S.		Carrier Agents on	85-93). Springer, Singapore.
		Physicochemical and	
		Antioxidant Properties of	
		Spray-Dried	
		Murrayakoenigii (Linn.)	
		Leaf Extract.	

C. Books authored:

1	Rajagopal, V. and S. J. D, Bosco. 2002. Post harvest technology of coconut.
	In: Sustainable production and utilization of coconut. (Eds.) H. P. Singh and
	M. T. Mathew. Published by The Coconut Development Board, Kochi. pp 12-
	21.
2	Bosco, S. J. D. 2003. State of art technologies for processing of coconut based
	niche products. In: New approaches to product diversification, value addition
	and global marketing of coconut products. pp138 – 154.
3	Bosco, S.J.D. 1998. Coconut based beverages. In: Harvest and Post Harvest
	Technology of Plantation Crops. (Eds.) Bosco, S. J. D., C.V. Sairam, K.
	Muralidharan and C.H. Amarnath. 1998. p29-38.
4	Bosco, S.J.D. 1998. Coconut shell made products. In: Harvest and Post Harvest
	Technology of Plantation Crops. (Eds.) Bosco, S. J. D., C.V. Sairam, K.
	Muralidharan and C.H. Amarnath. 1998. p54 -60
5	Bosco, S.J.D., C.V. Sairam, and T. Vidhan Singh. 2000. Post Harvest
	Technology of Horticultural Crops of Konkan Region. CPCRI, Kasaragod. 137
	p.
6	Arulraj, S, V. Rajagopal, C.V. Sairam, P. Anithakumari, R. Dhanapal, SJD
	Bosco, K. Sukumaran, S. Naresh Kumar, GV Thomas, Vinayak Hegde, PM

	Kumaran and VA Parthasarathy. 2001. Coconut Community in India – A
	profile. 68 p.
7	Bosco, S.J.D. 2000. Post harvest technology of Arecanut. In: Post harvest
	technology of horticultural crops of Konkan Region. (Eds) Bosco, S. J. D. et.
	al. p 37-44.
8	Bosco. S. J. D. 2005. Weather in relation to processing. In: Value addition to
	weather data – advisory service to farmers. (Eds.) V. Rajagopal and S. Naresh
	Kumar. Pp 76 – 84.

D. Books edited:

1	Bosco, S.J.D., C.V. Sairam, and T. Vidhan Singh. 2000. Post Harvest
	Technology of Hort. Crops of Konkan Region. CPCRI, Kasaragod. 137 p.
2	Arulraj, S, V. Rajagopal, C.V. Sairam, P. Anithakumari, R. Dhanapal, SJD
	Bosco, K. Sukumaran, S. Naresh Kumar, GV Thomas, Vinayak Hegde, PM
	Kumaran and VA Parthasarathy. 2001.Coconut Community in India – A
	profile. CPCRI, Kasaragod. 68 p.
3	Bosco, S.J.D., C.V. Sairam, K. Muralidharan and C.H. Amarnath. 1998.Harvest
	and Post Harvest Technology of Plantation Crops. 184 p.

E. Bulletins:

1	C. V. Sairam, SJD Bosco , S. Arulraj, V, Rajagopal, C. Thamban and K
	Samsudeen. 2003. Developing sustainable coconut based income generating
	technologies in poor coconut communities – Ariyankuppam coconut
	community.
2	Bosco, S. J. D. 2004. Snow ball tender nut. In: Income generation through
	different coconut products (Mal.). (Eds.) C. Thamban, S. J. D. Bosco and S.
	Arulraj, CPCRI. Kasaragod. pp 1-2
3	Bosco, S. J. D., G. V. Thomas and N. V. Hema. 2004. Coconut chips: A new
	product from coconut. In: Income generation through different coconut
	products (Mal.). (Eds.) C. Thamban, S. J. D. Bosco and S. Arulraj, CPCRI.
	Kasaragod. pp 1-2

4	S.J.D.Bosco, C. Thamban, S. Arulraj, M.S. Rajeev, C.V. Sairamand Bindu
	Chandran, "Coconut Chips" (In Malayalam), 2004, Central Plantation Crops
	Research Institute, Kasaragod.
5	Madhavan, K and SJD Bosco . 1994. Copra Dryer. 15 p.
6	Bosco, SJD and NeelofarIlliaskutty. 2001. Methods of preparation of
	diversified products of coconut. 21p.
7	Madhavan, K., Bosco , SJD and T. Vidhan Singh. 2001. Copra dryers. 10 p