



NRCCWF

NEWS

National Research Centre on Coldwater Fisheries
Bhimtal - 263136 (District Nainital): Uttarakhand

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NRCCWF WELCOMES THE NEW PRESIDENT AND VICE-PRESIDENT OF ICAR



Shri Ajit Singh Ji, the Hon'ble Member of Parliament took over as the Union Agriculture Minister and the President of Indian Council of Agricultural Research on July 22, 2001. Shri Singh inspite of being a technocrat has a keen interest in Agriculture development in the

country and his leadership of ICAR will greatly benefit the research and research community involved in this activity. The members of staff of National Research Centre on Coldwater Fisheries, warmly welcome the Hon'ble Agriculture Minister and President ICAR and assure our commitment in generating suitable technologies for fishery development in our hilly region.



Shri Hukumdeo Narayan Yadav, has taken over as Hon'ble Minister of State for Agriculture and Vice-President of Indian Council of Agricultural Research on November 2, 2001. Shri Yadav has special interest in Agriculture and his guidance will be of great help in our

efforts to transfer the technologies to the farmers to raise the farm productivity of small and marginal farmers. The NRCCWF welcomes the Hon'ble Minister, assures dedicated service to ICAR system and continued efforts in fishery research for upland regions.

DR. PANJAB SINGH TAKES OVER AS THE SECRETARY DARE AND DIRECTOR GENERAL, ICAR



Dr. Panjab Singh, an eminent agriculture scientist, has taken over as the Secretary, DARE and Director General ICAR on October 4, 2001. He is a world renowned scientist and prior to present assignment he held many eminent positions in NARS at different organizations. Dr. Singh has been

associated with many national and international scientific societies. He is recipient of many national and international awards for his outstanding achievements in the field of agronomy. The NRCCWF family welcomes the new Director General and all members of staff pledge to work hard to implement the policies and directions under his leadership in order to achieve higher growth rate in coldwater fishery sector in the country.

NEWS FROM RESEARCH FRONT

Induced Spawning of Exotic Carps in the uplands

The exotic carp based aquaculture technology developed by NRCCWF for mid hill regions has been successfully demonstrated in the Kumaon region of Uttranchal. Now more and more farmers are evincing keen interest and there is a steady demand for the seed of silver carp (*Hypophthalmichthys molitrix*) and grass carp (*Ctenopharyngodon idella*). But there is a mismatch between the fish growing period in hills and the availability of seed of these species in our hatcheries located in the plain areas. Further, no attempts have been made to induced breed these species at high altitudes. With the twin object of making seed available to farmers in hills during the growing period and evaluate the feasibility of induced breeding at high altitudes (1620 masl), the present attempt was made by the NRCCWF at the



Chirapani Experimental farm. This experimental work has been carried out on the fish stocks originally transported from the plains and subsequently raised to maturity under the agro-climatic conditions of Champawat.

Studies on their growth, survival, maturity and water quality variables revealed that long spell of low water temperature ($<8.0^{\circ}\text{C}$) to be one of the key constraints in the proper ovarian development even in female brooders of 5 + years. To hasten the maturity and ovarian development in silver and grass carps at these altitudes, fractional doses of fish pituitary hormone in combination with ovaprime were administered to 5–6+ year old stocks from February 2001 at monthly intervals. After the fractional hormonal treatment the 6+ year old stock responded, when ovarian development was observed in most of them. In July 2001, most of the male fishes were in oozing condition and the hypophysation trials were attempted. The females of silver carp were given 13 ml/kg ovaprime in three doses but males were injected only once @ 3 ml/kg body weight. After 18 hours first female weighing 2.5 kg was stripped and 1.92 lakh eggs were obtained. Two more pairs were also bred next day. The rate of fertilization recorded for these eggs was estimated at 63.7%. The similar trials of breeding grass carp succeeded with only one pair registering a yield of 1.7 lakh eggs, in this case ovaprime was injected @ 17 ml/kg to female in three doses while males were given the injection @ 5 & 6 ml/kg. These breeding experiments were carried out at water temperature range of 18–20°C. But it has been observed that egg development is affected when the water temperature falls below 16°C. From the results it is inferred that both exotic carps viz., silver and grass, can be induced bred after 6+ years even at the high altitudes (1620 m asl). But during incubation and rearing period the water temperature is slightly raised above

18°C. This opens up the possibility of artificial seed production of these species at high altitudes.

Natural seed resources of Mahseer in Kumaon streams/ rivers

The golden Mahseer (*Tor putitora*) populations have considerably declined both in numbers and size. The huge specimens weighing 20-30 kg collected by the anglers in twenties and thirties are now a history and fishes weighing 2-3 kg are presently being recorded in catches. Various environmental factors have been pinpointed by many workers for this situation. But restoration of this fishery in our aquatic systems is one of our prime concerns. In this strategy controlled seed production for ex-situ conservation is being pursued by NRCCWF. However, in-situ conservation is another positive approach to restore the population of Mahseer. This will involve survey, potential assessment of breeding grounds of this species in natural ecosystems and their collection for ranching at suitable sites.

To fulfill this objective under National Agricultural

Technology Project, NRCCWF has surveyed and pinpointed the Mahseer seed collection centre in various river systems in Kumaon Himalayas. These are located between Thal-Nachni in Ramganga (E); Bageshwar-Bajnath in Gomti; Chalthi-Amori in Ladhiya; Ramnagar-Dhikala in Kosi; Marchula-Marthan in Ramganga (W); Jauljibi-Madkot in Gori; and Jhulaghat in Kali, Sheraghat in Saryu. The following table depicts the availability of Mahseer seed at various locations in Kumaon region.

Name of stream/river	Locality	Fry & fingerlings collected (size in mm)
Ramganga (W)	Maithan	42-71
Kosi	Ramnagar	48-69
Ladhiya	Chalthi	52-84
Ramganga (E)	Nachni	48-62
Gomti	Bageshwar	30-52

FORMER MINISTER VISITS NRCCWF

Former Hon'ble Union Minister of Agriculture, Government of India, Shri Nitish Kumar Ji paid a visit to this Centre's Hq. at Bhimtal on July 7, 2001. The Hon'ble Minister, was received and welcomed by Dr. Gopakumar, DDG(Fy) ICAR apart from the Director and staff of the



centre. The Minister was accompanied by other high officials apart from Dr. Kiran Singh, DDG(Animal Science) ICAR and Dr. Yadav, the Director IVRI. Subsequently, Dr. Vass the Director NRCCWF briefed the Hon'ble Minister about Mahseer seed production



programme under operation at the Bhimtal hatchery and explained to him other research and extension activities being carried out by the institute through display posters. Shri Nitish Kumar Ji also inspected the construction site of NRCCWF complex presently under construction at Bhimtal, he expressed satisfaction at the progress of work

but instructed that land for establishing residential quarters for staff to be procured on priority. Later speaking at the function organized in his honour the Minister appreciated the efforts of NRCCWF scientists in bringing the coldwater fisheries on national scene through their sustained hard work in the field of aquaculture and openwater fisheries. But he impressed upon the scientists that fruits of technology should be passed on the local people/farmers involved in the sector. On this occasion the Hon'ble Minister released three publications (2 in Hindi & 1 in English) brought out by the Institute. Shri Nistish Kumar Ji had brief interaction with the local press and expressed his views about the role that Coldwater Fisheries Development can play in rural economy of the newly created State of Uttranchal and opined that ICAR will extend necessary help to promote R&D activity in this area.

EXTENSION/TECHNOLOGY TRANSFER

Govt. of India declares Fish Farmer's Day (NRCCWF celebrates)

On July 10, 2001 NRC on Coldwater Fisheries organized a training programme at Chirapani Experimental farm, Champawat, the day has been declared by the Government of India as "Fish Farmer's Day" through a special notification. The training programme continued for 4 days between July 10 to 14, 2001 with a focus on "learning by doing". The theme of the training programme "Parvatiya kshetron mein vaigyanik vidhidwara adhik matsya utpadan" was designed to meet the needs of many farmers who are now attracted towards fish cultivation in hill regions and are ready to adopt the culture technologies evolved by the Institute. In all 13 farmers and one scientist from G.B. Pant Institute of Himalayan Environment & Development (Ministry of Environment & Forest, Govt. of India), Kosi, Distt. Almora participated in the training programme. Dr. Shyam Sunder, Principal Scientist; Dr. B.C. Tyagi,

Principal Scientist; and Dr. K.D. Joshi, Scientist delivered the lectures on various aquaculture aspects to the participants. They were imparted practical training and demonstration of farm activities was also arranged. The valedictory function of this training programme was graced by Shri S.K. Maheshwari, IAS, District Magistrate, Champawat, who distributed certificates to the trainees.

Fish harvest & sale from a demonstration pond

Shri Ishwari Datt, a progressive fish farmer at Champawat covered under technology transfer programme of the NRCCWF organized a sale of his fish stocks on December 1, 2001. Applying the package of practices evolved by NRCCWF for exotic carp farming in hills, the farmer harvested fishes in the size range of 350-1000 g attained in a period of 210 days, raised in 150 m² pond area. This demonstration sale of fish stocks from farmer's pond was formally inaugurated by Shri P.S.

Kutiyal, the Additional District Magistrate, Champawat. Speaking on the occasion, the chief guest Shri Kutiyal emphasized the need to popularize fish cultivation in the hill areas by such demonstrations so that more farmers come forward to adopt fish farming which can generate additional income to uplift their economic and social status. Dr. K.D. Joshi, Scientist and Officer Incharge, Champawat centre of the Institute, while explaining various fish culture activities informed the gathering about

the role played by NRCCWF in creating awareness about aquaculture in the region. Among the participants present were the district officials, public representatives, gram pradhans, villagers and local students.

Distribution of fish seed

Under TOT programme of the Institute, 6000 advance fry of Chinese carps viz; common, grass and silver carp were distributed to the progressive farmers in Champawat district.

EVENTS/CELEBRATIONS

Rajabhasha Activities

During September 18-21, 2001 the Institute at Bhimtal organized various Hindi related activities. The main function on 21st September 2001 was inaugurated by Smt. Bina Arya, Chairperson, Zila Panchayat, Nainital. Shri P.K. Mishra, Deputy Director, Central Silk Research Institute, Bhimtal and Miss Reena Ray, Manager, State Bank of India were among the dignitaries present on the occasion. During the period institute organized essay competition, debate, and gosthi in which the members of staff and the students from local schools and colleges participated. S/Shri Dinesh Bhat and Manoj Naugai of LP Inter College were adjudged as 1st and 2nd in debate and S/Shri Manoj Naugai, Puspesh Sanga, and Vikas Bhandari were adjudged as 1st, 2nd and 3rd in the essay competition. They were suitably awarded by the chief guest. Speaking on the occasion the Director highlighted the activities and achievements of the Rajbhasha Implementation Cell of the Institute. On this occasion Hindi publications of the Institute were also exhibited which evinced keen interest of participants. The chief guest in her remarks appreciated the efforts of NRCCWF scientists in brining out the publications in Hindi thus making it easy for the common masses to understand and adopt the technologies on fish cultivation in hill areas. Shri Mishra, highlighted the need for adoption of Hindi in technical institutes and focused on certain difficulties faced in its implementation.



Hindi workshop cum Farmers' Training

On the occasion of World Food Day on October 16, 2001 the Institute organized a two days Hindi Workshop on October 16 & 17, 2001 alongwith a training programme on "Upland fish farming techniques" at its



Champawat research centre. Shri Mahendra Singh Maharana, Chairman, Zila Panchayat, Champawat presided at the concluding session of this training cum workshop. In his address he stressed upon the need for popularization of fish culture activities in the rural areas especially in the villages through the Hindi publications so that adoptable technologies evolved by the Institute could reach to the common masses and maximum people

can come forward to adopt fish cultivation as a source of additional income. The scientists of the Institute Drs. Shyam Sunder, B.C. Tyagi, A.K. Singh and K.D. Joshi delivered lectures and demonstrated fish farming technologies to the farmers. Besides many public representatives, villagers and students of the local schools and colleges were present on the occasion. The chief guest distributed the certificates to the successful trainees.

HUMAN RESOURCE DEVELOPMENT

Seminar / Symposia / Workshop

Workshop on “Captive breeding for aquaculture and fish Germplasm conservation” held at NBFGR, Lucknow during July 29-30,2001. Dr. Madan Mohan

National Workshop on “Mighty Mahseer—biodiversity and genetic conservation” held at The Tata Power Company Limited, Lonavla during August 24-25,2001. Dr .K.K. Vass Dr. Shyam Sunder

Brainstorming Session on “Introduction of Exotics and Quarantine” held at NBFGR, Lucknow during November 1-2,2001 Dr.A.K. Singh

Workshop on “Integration of fish biodiversity Conservation and development of fisheries in NE region through community participation” held at Guwahati during December 12-13,2001 Dr.A.K. Singh

National workshop on “Basic Sciences and Fisheries” organized by Society of Biosciences at CIFE, Mumbai during September 11-12, 2001 Dr. Madan Mohan

International symposium on “Fish for Nutritional Security in 21st Century” at CIFE, Mumbai during December 4-6, 2001. Dr.K.K. Vass Dr .Madan Mohan

Training

Dr. H.S. Raina, Principal Scientist participated in a training programme on IPR & WTO to NARS scientists held at Indian Institute of Sugarcane Research, Lucknow during September 5-7, 2001.

Ms. Yasmeeen Basade, Scientist was nominated to participate in a short-term training programme “Molecular Markers: Tools for fish population genetic analysis” organized by NBFGR, Lucknow from 29.10.2001 to 10.11.2001.

Shri A.K. Nayak, Scientist (Computer Application) imparted training to the scientific staff of NRCCWF, Bhimtal on Microsoft Power Point -2000 during October 9-11,2001.

Awards

One of our colleagues, Ms. Yasmeen Basade, Scientist was awarded doctorate degree by Central Institute of Fisheries Education (Deemed University) ICAR in December 2001 for her thesis on “Feed and Nutrition in *Tor khudri*”

Shri Ashok Kumar Nayak, Scientist of the Institute has passed the “Hindi Prabodh” Examination held during May 2001 organized by Central Hindi Training Institute, New Delhi.

MEETINGS

Joint Staff Council

The Institute’s Joint Staff Council met on September 18, 2001 under the chairmanship of the Director in which implementation of previous decisions was reviewed and various welfare programmes for the staff discussed. The members from official side as well as staff side attended the meeting and participated in the discussions and took decisions on various fresh agenda items.

Research Advisory Committee

The first meeting of newly constituted Research Advisory Committee was held on October 30 & 31, 2001 under the chairmanship of Dr. S.N. Dwivedi, Ex Director General, M.P. Council of Science & Technology, Bhopal; Ex-Director, CIFE, Mumbai; Ex-Additional Secretary, Government of India. Other members of the committee are Dr. K. Radhakrishna, Ex-ADG (M. Fy.), ICAR, New Delhi; Dr. B.N. Singh, ADG(IF), ICAR, New Delhi; Dr. Kuldip Kumar, Director of Fisheries, Himachal Pradesh;



Dr. U.P. Singh, Dean, College of Fishery Sciences, G.B. Pant University of Agriculture & Technology, Pantnagar and Prof. M.K. Jyoti, Jammu University. After the introductory remarks by the committee members and subsequent thorough discussion on the progress of various research projects of the Institute, the recommendations for future plan of action were made. The committee members were satisfied with the performance of each project and advised to utilize the data/information collected for publication so that the researchers/scientists in other areas can be benefited with the achievements of the Institute.

International Meeting

Dr. Vass attended the First Meeting (AGM-I) of the Asia Regional Advisory Group on Aquatic Animal Health (AG) at NACA headquarters, Bangkok, Thailand between November 7-9, 2001. Dr. Vass represented India and presented the progress made in country in developing and implementation of the “National Strategy on Health Management for the Responsible Movement of Live Aquatic Animals with a focus on fin and shell fish” in the meeting. This meeting was attended by twenty experts from various scientific organizations from U.K, Japan, Australia, Rome, China People’s Republic, Indonesia, Thailand, Singapore, Hong-Kong (China), Brunei, Cambodia, Philippines, apart from India. The discussions in the meeting were very useful in developing our fin and



shell fish disease monitoring programme and help in exchange of scientific information between various scientific organizations in this field.

Management Committee

A meeting of the Management Committee of the Institute was held on December 15, 2001 under the chairmanship of Dr. K.K. Vass, Director. The meeting was attended by Dr. Kuldip Kumar, Director of Fisheries, Government of Himachal Pradesh; Dr. U.P. Singh, Dean, College of Fishery Sciences, G.B. Pant University of Agriculture & Technology, Pantnagar; Shri Promod Kumar Raju, Patna; Dr. Jagdish Chander Nirmohi, Delhi; Dr. M.P. Singh Kohli, Principal Scientist, CIFE, Mumbai; Shri J.C. Pant, F&AO, IVRI, Izatnagar; Dr. H.S. Raina, Principal Scientist, NRCCWF; Dr. Madan Mohan, Principal Scientist (Member Secretary). In the meeting the committee confirmed the proceedings of the last meeting, discussed fresh agenda items and recommended various proposals submitted for their consideration.



Rajbhasha Committee

Regular quarterly meetings of Hindi Implementation Cell were held on 6.10.2001 and 31.12.2001. The committee reviewed the progress made by the Institute in use of Hindi as an official language.

STAFF NEWS

Sports Meet

A 15 member team of NRCCWF participated in Zone IV Inter-Institutional Sports Meet held at Central Institute for Research on Buffalo, Hisar, Haryana during November 3-7, 2001.

Promotions/Assessment/Career Advancement

Following Senior Scientists of the Centre received promotion retrospectively under Career Advancement Scheme of ICAR orders received in May 2001.

Dr. C.B. Joshi	Principal Scientist	w.e.f. July 27, 1998.
Dr. Shyam Sunder	Principal Scientist	w.e.f. July 27, 1998
Dr. B.C. Tyagi	Principal Scientist	w.e.f. July 27, 1998.

Following Technical Staff were promoted to next grade through assessment

Shri Gopal	T-1 to T-2	w.e.f. 11.11.1999
Shri R.K. Arya	T-1 to T-2	w.e.f. 20.09.2000
Shri T.M. Sharma	T-1 to T-2	w.e.f. 25.09.2000
Shri Santosh	T-1 to T-2	w.e.f. 26.12.2000
Shri Hansa Datt	T-1 to T-2	w.e.f. 22.9.2000

Appointments

Smt. Munni Bhakt W/o Late Shri H.C. Bhakt joined the Institute Headquarters at Bhimtal on 12.11.2001 as Junior Clerk on her appointment on compassionate grounds.

Smt. Basanti Devi W/o Late Shri M.S. Rana was appointed on compassionate grounds as Supporting Staff (SS Gr- I), she joined on 27.11.2001 at NRCCWF Field Centre Champawat.

Wedding bells

Our colleague Shri Ashok Kumar Nayak, Scientist, got married to Smt. Kumudini Nayak on December 2,

2001. The NRCCWF family wishes the couple a happy wedded life.

PUBLICATIONS

Following publications were brought out by the Institute during the period and released by various dignitaries from time to time.

<i>Name of Publication</i>	<i>Script</i>
A pamphlet "Breeding Techniques of Golden Mahseet"	English
A pamphlet "sheet jal matysia ahar"	Hindi
A pamphlet "himalaya khetre mae asela matskyae"	Hindi
A technical Hindi—English dictionary	Bilingual
"Uttaranchal mein matsyaki vikas ki sambhavanai"	Hindi





FROM DIRECTOR'S DESK

Dear Reader,

By the close of the year 2001 we are at the fag end of IX plan and actions are underway to focus on our projections and activities of X plan, to be initiated from April 2002. Therefore, it is time to reflect back on the progress that we have made during the IX plan period. It also provides us an opportunity to assess as to how far it has been possible for us to implement the perspective mentioned in our VISION 2020 document during this period. At the outset while looking at the research achievements, we find that our VISION document listed nearly twelve thrust areas to be covered in period between 1995 to 2005 but actual implementation of VISION was initiated from 1997, in-fact the start of IX plan. Thus during this plan period, in consultation with RAC we initiated work on eight programme areas covering Open-water Fisheries and Aquaculture. The programme areas were, production functions of hill wetlands, Fish biodiversity in hill streams, Seed production of golden mahseer and snow-trout, Artificial feed development, Induced breeding of exotic carps at high altitudes, Exotic carp farming in hills, Feasibility of rainbow trout farming at higher temperatures in Kumaon Himalayas. At the end of five years we find that scientists engaged in all these programme areas have achieved reasonably good success and results of these projects in many cases have been passed on to the farmers and other clients for whose benefit these programmes were initiated. The impact is revealed through generation of scientific database which has helped to develop fishery management action plan for open-water systems; creating awareness about exotic carp based aquaculture among farmers in hills with more farmers evincing keen interest to take up fish farming and two best farmers were suitably awarded by the Hon,ble MOS, DARE; regular mahseer seed production and its ranching in Kumaon lakes; successful raising of rainbow trout to table size at higher temperatures in Kumaon region for the first time and its sale to local people in Champawat district; feed development for trout and its pilot scale production with the help of CIFA, our sister institute. All these activities have focused the NRCCWF at the national scene and various organizations are willing to have linkages with us to offer consultancies. However, the programme regarding mahseer and snow-trout brood stock development on a large scale could not met with success due to some constraints. Further, genetic improvement and disease aspect in coldwater fishes could not be addressed due to lack of specialized scientific manpower and the required facilities. However, our overall progress on the research front within the existing constraints during the period as adjudged by various committees such as RAC, 's and QRT has been appreciable. On the infrastructure front there has been tremendous progress and we are confident that NRCCWF will have its own building at Bhimtal by June 2002, which will significantly improve the working atmosphere for the scientists and other staff of the centre. All of us at the NRCCWF should resolve that during X plan with added facilities the Centre will come at the international scene due to our quality work in the field of Coldwater Fisheries and Aquaculture. I expect that in near future NRCCWF will be playing a very crucial role in the development of Hill Fisheries in the country.

K.K. Vass

अनुसंधान समाचार

पर्वतीय क्षेत्रों में विदेशी कार्प मछलियों का उत्प्रेरित प्रजनन

राष्ट्रीय शीतजल मात्स्यिकी अनुसंधान केन्द्र का उद्देश्य पर्वतीय क्षेत्रों में विदेशी कार्प मछलियों के लिए बीज उत्पादन तकनीकियां विकसित करना है। इस दिशा में केन्द्र के वैज्ञानिकों ने कुमायूँ क्षेत्र के चम्पावत जिले में स्थित अपने छीरापानी मत्स्य फार्म में चाइनीज कार्प जैसे-सिल्वर कार्प, ग्रास कार्प व कामन कार्प के उत्प्रेरित प्रजनन में प्रारम्भिक सफलता प्राप्त की है। पूर्व में भी संस्थान द्वारा व्यावसायिक मछलियों के उत्पादन हेतु तकनीकियों को विकसित किया गया है। अतः यह आवश्यक है कि उनको इसके बीज उत्पादन सहित समग्र तकनीकियों की जानकारी उपलब्ध करायी जाए। इस तरह से तराई में मत्स्य कृषक की दूसरे कृषक पर निर्भरता को कम किया जा सकता है और वे स्वयं बीज उत्पादन द्वारा मत्स्य भण्डार में वृद्धि कर सकते हैं।

कुमायूँ की नदियों/झीलों में माहसीर बीज की उपलब्धता

सुनहरी माहसीर जो पिछली शताब्दी में कुमायूँ के पर्वतीय क्षेत्र के नदियों एवं झीलों में प्रमुख थी अब संख्या एवं आकार में काफी कम हो चुकी हैं। पिछली शताब्दी के द्वितीय एवं तृतीय दशकों में मत्स्य आखेटकों द्वारा पकड़ी जाने वाली विशालकाय 20-30 कि. ग्रा. भार वाली मछलियां अब इतिहास की वस्तु बन चुकी हैं और अब 2-3 कि. ग्रा. भार वाली मछलियां ही उपलब्ध हैं। अन्वेषणों से पता चला है कि मानव एवं प्राकृतिक कारणों से उत्पन्न पर्यावरणीय दबाव के कारण प्राकृतिक स्रोतों में माहसीर की उपलब्धता कम हुयी है। हिमालय के अधिसंख्यक जल स्रोतों में मात्स्यिकी का ह्रास एवं बहुत सी प्रजातियों के विलुप्त होने के कारण माहसीर मछली को संकटग्रस्त जीवद्रव्य घोषित किया गया है। माहसीर को इसके प्राकृतिक जलवास में

पुनर्स्थापित करने हेतु माहसीर का संरक्षण उसके प्राकृतिक वास में ही किया जाना एक सकारात्मक कदम है।

काली, सरयू, पश्चिमी राम गंगा तथा उसकी सहायक नदियों जैसे-लधिया, पूर्वी रामगंगा, कोसी आदि माहसीर के बीज के लिए प्रमुख स्रोत हैं तथा इनके किनारों से जीरा एवं अंगुलिकाओं को विपुल मात्रा में संग्रह किया जा सकता है। राष्ट्रीय अनुसंधान केन्द्र में राष्ट्रीय कृषि तकनीकी परियोजना (NATP) के अन्तर्गत कुमायूँ की विभिन्न नदियों जैसे-पूर्वी रामगंगा में थल-नाचनी, गोमती में बागेश्वर-बैजनाथ, लधिया में चल्थी-अमोड़ी, कोसी में रामनगर-ढिकाला, पश्चिमी रामगंगा में मारचूला-मैथान, गोरी में जौलीजीबी-मदकोट, काली में झूलाघाट तथा सरयू में-शेराघाट इत्यादी माहसीर के बीज संग्रह केन्द्र चिन्हित किए गए हैं।

माननीय मंत्री महोदय द्वारा राष्ट्रीय अनुसंधान केन्द्र का भ्रमण

8 जुलाई 2001 को माननीय कृषि एवं रेलवे मंत्री श्री नीतिश कुमार द्वारा राष्ट्रीय शीतजल मात्स्यिकी अनुसंधान केन्द्र का भ्रमण किया गया। संस्थान के निदेशक डॉ. के.के. वास ने माननीय मंत्री जी का स्वागत करते हुए संस्थान द्वारा इस क्षेत्र के लोगों की सामाजिक एवं आर्थिक स्थिति में सुधार के लिए किए जा रहे अनुसंधान एवं विकास कार्यों पर संक्षेप में प्रकाश डाला। संस्थान के वैज्ञानिकों एवं कर्मचारियों से औपचारिक मुलाकात के पश्चात् माननीय मंत्री जी ने खुला जल मात्स्यिकी एवं जल सम्बर्द्धन के क्षेत्र में राष्ट्रीय अनुसंधान केन्द्र द्वारा किए जा रहे अनुसंधान कार्यों की सराहना की। माननीय मंत्री जी द्वारा संस्थान की माहसीर बीज उत्पादन ईकाई तथा भीमताल क्षेत्र में संस्थान के नवनिर्मित परिसर का भी भ्रमण किया।

मानव संसाधन एवं विकास

राष्ट्रीय शीतजल मात्स्यिकी अनुसंधान केन्द्र द्वारा प्रगतिशील मत्स्य कृषकों के लिए प्रशिक्षण कार्यक्रम एवं विशेष मत्स्य दिवस का आयोजन

राष्ट्रीय शीतजल मात्स्यिकी अनुसंधान केन्द्र, चम्पावत में 10 जुलाई, 2001 को भारत सरकार द्वारा घोषित 'विशेष मत्स्य कृषक दिवस' के अवसर पर 10 से 14 जुलाई, 2001 को 4 दिवसीय प्रशिक्षण कार्यक्रम आयोजित किया गया। प्रशिक्षण कार्यक्रम का मुख्य विषय- 'स्वयं करके सीखें' था। पर्वतीय क्षेत्रों में वैज्ञानिक विधि द्वारा अधिक मत्स्य उत्पादन विषयक प्रशिक्षण की विषय वस्तु समय की आवश्यकता के अनुरूप निर्मित की गई थी क्योंकि बहुत से कृषक मत्स्य उत्पादन हेतु संस्थान द्वारा विकसित तकनीकियों को अपनाने को उत्सुक हैं। प्रशिक्षण कार्यक्रम में गो.ब.पन्त हिमालयन पर्यावरण संस्थान कोसी, अल्मोड़ा के 13 कृषकों एवं एक वैज्ञानिक ने भाग लिया। इस अवसर पर संस्थान के वैज्ञानिक-डॉ. श्याम सुन्दर, डा. बी.सी. त्यागी (प्रधान वैज्ञानिक) एवं डॉ. के. डी. जोशी (वैज्ञानिक) ने जल सम्बर्द्धन की विभिन्न सम्भावनाओं पर व्याख्यान दिया तथा चम्पावत स्थित मत्स्य प्रयोगिक फार्म में मत्स्य तकनीकियों



का प्रशिक्षण एवं प्रदर्शन किया। मत्स्य कृषक प्रशिक्षण कार्यक्रम का समापन जिलाधिकारी, चम्पावत श्री एस.के. माहेश्वरी, आई.ए.एस. ने किया तथा प्रशिक्षणार्थियों को प्रमाण-पत्र भी वितरित किए।

हिन्दी कार्यशाला तथा कृषक प्रशिक्षण कार्यक्रम

संस्थान द्वारा दिनांक 16 से 17 अक्टूबर, 2001 को विश्व खाद्य दिवस के अवसर पर चम्पावत स्थित प्रयोगिक फार्म में दो दिवसीय हिन्दी कार्यशाला का आयोजन किया गया साथ ही 'पर्वतीय क्षेत्रों में मत्स्य कृषि की तकनीकियां' शीर्षक पर एक प्रशिक्षण कार्यक्रम भी आयोजित किया गया। जिला पंचायत अध्यक्ष श्री महेन्द्र सिंह महाराना ने कार्यशाला एवं प्रशिक्षण कार्यक्रम की अध्यक्षता की तथा अपने सम्बोधन में उन्होंने मत्स्य पालन को ग्रामीण क्षेत्रों, विशेषकर गांवों में हिन्दी प्रकाशनों के माध्यम से फैलाने पर जोर दिया ताकि संस्थान द्वारा विकसित की गई तकनीकियां जन मानस तक पहुंच सकें और अधिक



से अधिक लोग मत्स्य पालन को अपनी अतिरिक्त आय का स्रोत बना सकें। इस अवसर पर संस्थान के वैज्ञानिकों डॉ. श्याम सुन्दर, डॉ. बी. सी. त्यागी (प्रधान वैज्ञानिक) तथा डॉ. के.डी. जोशी (वैज्ञानिक) ने किसानों को व्याख्यान दिए एवं मत्स्य कृषि तकनीकियों का प्रदर्शन किया। कार्यशाला के अवसर पर हिन्दी अनुवादक श्री अमित कुमार जोशी ने हिन्दी प्रकाशनों की प्रदर्शनी लगायी तथा विज्ञान के क्षेत्र में मातृ भाषा हिन्दी के योगदान शीर्षक पर व्याख्यान दिया। इस अवसर पर स्थानीय स्कूल कॉलेज के छात्र-छात्राओं, ग्रामीण, पत्रकारों, कृषकों आदि ने भाग लिया। मुख्य अतिथि द्वारा सफल प्रशिक्षुओं को प्रमाण-पत्र भी वितरित किए गए।

प्रशिक्षण

डॉ. एच.एस. रैना, प्रधान वैज्ञानिक ने इन्डियन इंस्टिट्यूट ऑफ शुगर केन रिसर्च लखनऊ में 5-7 सितम्बर, 2001 को 'आई.पी.आर. एण्ड डबल्यू. टी. ओ. टू नार्स साइन्टिस्ट्स' पर आयोजित प्रशिक्षण कार्यक्रम में भाग लिया।

यासमीन बसाडे, वैज्ञानिक को एन.बी.एफ.जी.आर. लखनऊ द्वारा 'मोलिक्यूलर मार्केट्स: टूल्स फार फिश पॉपुलेशन जेनेटिक एनालिसिस' पर आयोजित अल्प प्रशिक्षण कार्यक्रम (29.10.2001-10.11.2001) में भाग लेने के लिए मनोनीत किया गया।

श्री अशोक कुमार नायक, वैज्ञानिक द्वारा दिनांक 9-11 अक्टूबर, 2001 को राष्ट्रीय शीतजल मत्स्यिकी अनुसंधान केन्द्र भीमताल के वैज्ञानिकों को 'माइक्रोसाप्ट-पावर पाइन्ट-2000' पर प्रशिक्षण दिया गया।

कार्मिक समाचार

खेल-कूद

रा.शी.ज.मा. अनु. केन्द्र भीमताल के 15 सदस्यीय टीम ने दिनांक 3-7 नवम्बर, 2001 को सी.आइ.आर.बी. हरियाणा में आयोजित भा.कृ.अनु.प. की जोन चतुर्थ अर्न्तसंस्थानीय खेल-कूद प्रतियोगिता में भाग लिया।

प्रोन्नतियां

संस्थान के निम्नलिखित वरिष्ठ वैज्ञानिकों को प्रधान वैज्ञानिक के पद पर प्रोन्नत किया गया:

- | | |
|-------------------------------------|---------------------|
| डॉ. सी.बी. जोशी, प्रधान वैज्ञानिक | — 27 जुलाई, 1998 से |
| डॉ. बी.सी. त्यागी, प्रधान वैज्ञानिक | — 27 जुलाई, 1998 से |
| डॉ. श्याम सुन्दर, प्रधान वैज्ञानिक | — 27 जुलाई, 1998 से |

संस्थान के निम्न कर्मचारियों को भी देय तिथि से प्रोन्नत किया गया:

- | | |
|----------------------------|-----------------|
| 1. श्री संतोष कुमार, टी-3 | — 26.12.2000 से |
| 2. श्री टी.एम. शर्मा, टी-2 | — 25.9.2000 से |

- | | |
|------------------------------------|-----------------|
| 3. श्री गोपाल, टी-2 | — 17.11.1999 से |
| 4. श्री आर.के. आर्या
टी-2 | — 20.9.2000 से |
| 5. श्री हंसा दत्त सनवाल को
टी-2 | — 22.9.2000 से |

नियुक्तियां

दिनांक 12.11.2001 को श्रीमती मुन्नी भक्त, पत्नी स्व. श्री हेमचन्द्र भक्त को कनिष्ठ लिपिक के पद पर नियुक्त किया गया। दिनांक 27. 11.2001 को श्रीमती बसन्ती देवी, पत्नी स्व. श्री एम.एस. राना को सहायक कर्मचारी; एस.एस. ग्रेड-1 के पद पर नियुक्त किया गया।

विवाह

इस संस्थान के वैज्ञानिक श्री अशोक कुमार नायक, का दिनांक 2 दिसम्बर, 2001 को विवाह संस्कार सम्पन्न हुआ। इस अवसर पर संस्थान के सभी सदस्यों ने उनके सफल एवं सुखी वैवाहिक जीवन की शुभकामनाएं दी।

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