



Quarterly

# Newsletter

Pakistan Forest Institute, Peshawar

Consolidated Issue



Chief Patron: Syed Said Badshah Bukhari  
Director General

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## NEWS OF FOREST EDUCATION DIVISION

### HAKIM SHAH

Director Forest Education

The Forest Education Division, Pakistan Forest Institute Peshawar, conducted various academic activities during Jan-June, 2013 as under:

### FOREST MANAGEMENT TOUR (M.Sc AND B.Sc FORESTRY, SESSION 2011-13)

Forest Management tour of M.Sc and B.Sc forestry courses, session 2011-13 was conducted from 22-1-13 to 5-2-13 under the supervision of Mr. Asif Jah APoF and Mr. Anwar Ali FMO/APoF. During this tour, students were exposed to the practical aspects and field conditions of management of forests, rangelands and wildlife resources, including visits to rangelands of DG Khan, riverine forests of Sukkur, Hurri Plantations near Hyderabad, mangrove forests near Karachi, Safari Park at Karachi, Haliji lake and Coconut plantations near Thatta, Lal Sohanra National Park, Bahawalpur and Punjab Forestry Research Institute, Gatwala, Faisalabad.

Director General PFI and Director Forest Education PFI joined the students at Karachi and accompanied them on field visits to Karachi Safari Park and Mangrove forests.



DG, PFI and DFE with students visiting mangrove plantation area at Karachi

### ORIENTATION TOUR OF M.Sc FORESTRY SESSION, 2012-14 (SECTION-B)

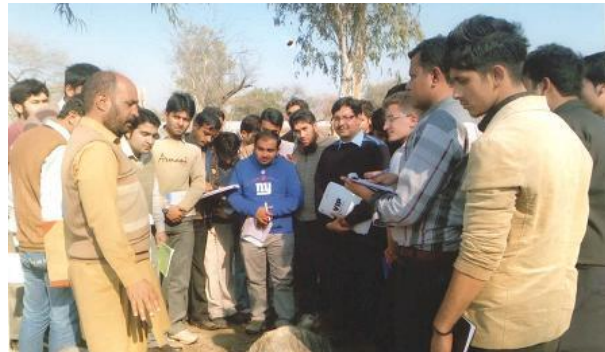
Orientation Tour for students of M.Sc Forestry 2012-14 (section-B), was conducted from 3-9 Jan, 2013. The objective of the tour was to acquaint students with various forest types and wildlife. The tour was conducted under the supervision of Mr. Ghayyas Ahmad, APoF and Mr. Abdul Majeed, LIF. During the tour, students were shown agro-forestry practices near Charsadda, scrub forests of Margalla Hills, Islamabad Zoo, conifer forests of Murree hills, Changa Manga irrigated plantation and Jallo Forest Park near Lahore. At all places, senior forest officials briefed students about activities and management.



Mr. Muhammad Yousaf Mehr CF Lahore briefing students at Jallo Forest Park

### ORIENTATION TOUR OF B.Sc FORESTRY SESSION 2012-14

Orientation tour of B.Sc forestry course session 2012-14 was held from 8-14 February 2013, under the supervision of Syed Zakir Hussain APoF and Mr. Ahmad Zamir LIF. During the tour, students were introduced to different forest types, tree and wildlife species. Main stations visited were Changa Manga irrigated plantation, Jallo Forest Park Lahore, Kharian range management division, Margalla hills National Park, Islamabad Zoo and Murree Forest Division. PFI Instructors and Field officers briefed the students about field forestry activities at every station



RFO Changa Manga briefing students in the field

### SURVEY CAMP OF M.Sc AND B.Sc FORESTRY SESSION 2012-2014

Forest surveying camp of M.Sc and B.Sc Forestry were held at PFI Field Station, Shinkiari from 15-5-13 to 12-6-13. Students were divided into two groups. First group comprising of M.Sc forestry (section-B) and B.Sc forestry students carried out the exercises from 15-5-13 to 29-5-13 while the second group comprising of M.Sc forestry students (section-A) students carried out the practical from 30-5-13 to 12-6-13 under the supervision of Mr. Asif Kamal, Ex-PD, URFS, Mr. Nizar Ali, AFE, Mr. Ahmad Zamir, LIF, Mr. Yousaf Khan LIF, Mr. Sohaib Ahmed LIF and Mr. Waseem, FR. Students

collected field data using different methods such as Chain Survey, Compass Survey, Plane Table Survey, Contouring and Forest Road layout and plotted it onto sheets. The DFE also visited the camp and inspected students work.



Students are busy in doing the practical work at survey camp

### INTERNATIONAL DAY OF BIODIVERSITY

Pakistan Forest Institute Peshawar and Department of Environmental Sciences (DES) University of Peshawar jointly organized and celebrated the International Day of Biodiversity at PFI on May 22, 2013 by organizing a walk and students speech competition.

Mr. Hakim Shah, Director Forest Education (DFE) PFI was the chief guest. Mr. Sarmad Hussain, student of B.Sc forestry won the speech contest. The chief guest awarded prizes to the participants of the contest. In his speech, he highlighted the importance of celebrating this day and thanked Department of Environmental Sciences, UoP for its cooperation. Mrs. Asma Waseem, lecturer DES also addressed the gathering.



DFE is awarding first prize to the winner of the speech contest

### HILL FORESTS TOUR OF M.Sc FORESTRY AND B.Sc FORESTRY SESSION (2012-14)

Hill forests study tour of M.Sc Forestry (section-B) and B.Sc Forestry students, session 2012-14 was conducted from 30-5-13 to 4-6-13 under the supervision of Mr. Ghayyas Ahmad APoF, Syed Zakir Hussain APoF and Mr. Ahmad Zamir LIF. Hill Forests tour of M.Sc Forestry section-A was conducted from 13-18 June 2013 under the supervision of Mr. Suhaib Ahmad LIF and Mr. Yousaf Khan LIF. Students were shown forest nurseries at Bedadi and Shino, Watershed conservation works at Balakot, moist temperate forests at Shogran, sub-alpine pastures at Siri/Paye, and dry temperate forests at KamalBan and Naran. Students also visited Saif ul Muluk National Park and Shino fish hatchery.



Mr. Tehmasip Khan, DFO Kaghan Forest Division is briefing students at Shogran

### EXAMINATIONS

University of Peshawar conducted 3<sup>rd</sup> term (A) examinations of M.Sc and B.Sc forestry courses, session 2011-13 and 1<sup>st</sup> term (A) examinations of M.Sc and B.Sc forestry courses session 2012-14 in April, 2013.

### WORLD WETLAND DAY 2013

#### Mian Muhammad Shafiq Dy Conservator Wildlife

Every year 2<sup>nd</sup> February is celebrated as a world wetland day. It marks the date of the adoption of the convention on wetlands on 2<sup>nd</sup> February 1971, in the Iranian city of Ramsar on the shores of the Caspian Sea. Each year since 1997, Government agencies, non-Governmental organizations, and citizens at all levels of the community have taken advantages of the opportunity to undertake actions aimed at raising public awareness of wetland values and benefits in general, and the Ramsar Convention in particular. The Theme for the year 2013 is Wetlands and Water Management.



DG, PFI addressing the audience

In this regard, Pakistan Forest Institute, (PFI) with collaboration of Environmental Protection Agency (EPA), Khyber Pakhtunkhwa jointly organized a one day seminar on World Wetland day in the auditorium of Pakistan Forest Institute, Peshawar. Worthy Director General, PFI, Syed Said Badshah Bukhari was the Chief Guest of the occasion. Dr. Bashir Khan, DG, EPA welcomed all the participants of the seminar. Director General, PFI in his inaugural address highlighted the wetland types, its role in the ecosystem and the importance of celebrating the Wetland Day.

The speakers of the seminar were Mian Muhammad Shafiq, Deputy Conservator Wildlife, PFI and Miss Asma, Lecturer, Environmental Science Department, University of Peshawar. The speakers gave presentation on Ramsar Convention and Wetland Conservation respectively.



Moreover, tableau was performed by the students of Fazia Inter College and Zarif Memorial School highlighting the importance of Wetland day.



Deputy Conservator (Wildlife) delivering lecture

Chairman Environmental Science Department, Chief Conservator Wildlife Khyber Pakhtunkhwa, officials of PFI and EPA academia and students of PFI and Environmental Sciences Department University of Peshawar attended the seminar.



Miss Asma, Lecturer, Environmental Science Department, UoP delivering lecture

**SHORT TRAINING COURSES ON WILDLIFE CONSERVATION AND MANAGEMENT FOR THE STUDENTS OF ZOOLOGY DEPARTMENT UNIVERSITY OF PESHAWAR FROM 1<sup>st</sup> - 3<sup>rd</sup> APRIL AND 4<sup>th</sup>, 5<sup>th</sup>, AND 8<sup>TH</sup> APRIL, 2013**

**Mian Muhammad Shafiq  
Deputy Conservator Wildlife**

Under the Forestry Sector Research & Development Project the Wildlife Management Branch of Pakistan Forest Institute has organized/conducted 2 (two) short training courses from 1<sup>st</sup> to 3<sup>rd</sup> April and 4<sup>th</sup>, 5<sup>th</sup> and 8<sup>th</sup> April 2013 for the students of Zoology Department, University of Peshawar.



CCF Wildlife delivering lecture

Eighty six (86) students of the MSc. Zoology participated in the said courses. Eminent scholars, Wildlife Managers and PFI researchers were invited to deliver lectures on Wildlife Values and its Importance, Wildlife Status in Pakistan, Forest Types as Wildlife

Habitat, Community Participation in Biodiversity, Trophy Hunting as a Conservation Tool etc. Besides lectures a field practical exercise on Bird watching techniques was also conducted.



Participants of the training course

A certificate distribution ceremony was held in which 86 participants were awarded certificates. Worthy Director General, Pakistan Forest Institute, Peshawar and Secretary local Government, Syed Badshah Bukhari was the chief guest of the occasion.

In his inaugural address he said that Pakistan Forest Institute is actively involved in the training on Forestry and Wildlife Conservation & Management. Moreover, he stressed the need of awareness raising and capacity building about natural resources and its conservation among youth and communities.



DG, PFI awarding certificate to the course participants

**TRAINING COURSES ON BIODIVERSITY CONSERVATION FOR THE STUDENTS OF ENVIRONMENTAL SCIENCES DEPARTMENT, UNIVERSITY OF PESHAWAR**

**Mian Muhammad Shafiq  
Deputy Conservator Wildlife**

The wildlife Management Branch under the Forestry Sector Research & Development Project has organized/conducted two(2) short training courses from 23<sup>rd</sup> to 25<sup>th</sup> April, 2013 and 21<sup>st</sup> to 23<sup>rd</sup> May, 2013 at Pakistan Forest Institute, Peshawar for the students of Environmental Sciences Department, University of Peshawar.



Mian Muhammad Shafiq, Deputy Conservator Wildlife delivering lecture

Total number of 92 students of M.Sc. and B.Sc. (Hons) were participated in these two courses. Lectures on Biodiversity, Ecosystem diversity, Forest Types, Rangelands, NTFP as Biodiversity component, Ecotourism, Wildlife of Pakistan, Principals of Wildlife Management, Application of GIS in NRM, International Conventions and Community participation in Conservation of Biodiversity were delivered by the eminent scholars, Biodiversity Conservationists and PFI researchers. Besides lectures a field practical on bird watching was also conducted.

A certificate distribution ceremony was held at PFI auditorium in which 92 Participants were awarded certificates. Chairperson Environmental Sciences Department, University of Peshawar Dr. Shahida Zakir was the chief guest of the occasion, she thanked worthy Director General Syed Said Badshah Bukhari for arranging these courses.



Chairperson Environmental Sciences Deptt, University of Peshawar awarding certificate to the participants

#### **A TWO WEEK TRAINING COURSE ON CARBON STOCK ASSESSMENT AND REDD+ ORGANIZED**

**Anwar Ali**  
**Forest Mensuration Officer**

A two week training course on "Carbon Stock Assessment and REDD+" was organized by Carbon Stock Assessment of Forests of Khyber Pakhtunkhwa Project (CSAFKP) on June 3-14, at Pakistan Forest Institute, Peshawar. The training course was inaugurated by the Director General, PFI. Addressing on the occasion, the DG, PFI welcomed the participants and highlighted the importance of the this training course. He said that forests play important role in climate change as they act as carbon sink as well as source of carbon emissions. REDD+ is emerging as a new opportunity for forest management. A key step in this forest carbon management is estimating the magnitude of carbon stocks and the rate at which carbon is sequestered by the forests. DG, PFI pointed out that there is great potential for Pakistan to utilize the REDD+ opportunity for conserving and enhancing its meager but highly valuable forest resources.



Participants of training course "Carbon Stock Assessment & REDD+"

Project Incharge of CSAFKP told that the course was being organized in collaboration with SUPARCO and there will be a series of such training courses under the project to build the capacity of the forest managers and researchers in REDD+. Eminent resource persons were invited to deliver lectures on various aspects of carbon accounting and REDD+. The participants were apprised and practically demonstrated the use of GIS and remote sensing techniques for carbon stock assessment. The participants were also taken to Galiat Forests to practically learn carbon measurement in the field.

The training was attended by 25 participants from PFI, KP Forest Department, Wildlife Department, Agriculture University Peshawar and Environment Department of Peshawar University.

#### **WOOD FLUORESCENCE; AN INDIGENOUS APPROACH OF IDENTIFICATION**

**Tanvir Hussain**  
Assistant Wood Technologist

Fluorescence of wood appears to be a well known property but so far remained almost unused. The first observations were made in 1921 in aqueous extracts of Horse chestnut (*Aesculus hippocastanum*) and Ash (*Fraxinus excelsior*) wood fluorescence tests can easily be determined by surface fluorescence and that of water as well as ethanol extracts.



Under normal lighting conditions certain woods appear identical to one another but when exposed to backlights; their surfaces behave differently due to the absorption and emission of different wave lengths. This phenomenon is known as florescence and certain woods can be distinguished by the presence or absence of their florescence qualities. One of the best example of florescence is found in Black locust (*Robinia pseudoacacia*), which is very similar in appearance to Mulberry (*Morus* spp.). Black locust will emit a strong yellow-green glow when placed under fluorescence while Mulberry will be non-reactive.

In the following table the level of fluorescence properties exhibited by some woods have been reported when exposed to black light:

Wood Species (Common names)	Scientific names	Fluorescence notes
Black locust	<i>Robinia pseudoacacia</i>	Yellow-green
Scots Elm	<i>Ulmus glabra</i>	Faint to medium yellow/green streaks
Mesquite	<i>Prosopis</i> sp.	Faint to medium green streaks
Australian Blackwood	<i>Acacia melanoxylon</i>	Medium streaks of yellow/green
Mango	<i>Mangifera indica</i>	Bright green streaks in heartwood
Olive	<i>Olia</i> spp.,	Faint to medium yellow streaks in heartwood

(Source: www.wood-database.com)