

PROGRAMME: CAPACITY BUILDING in EARTHWORM TAXONOMY & ECOLOGY

Coordinator: Prof KG Saxena, JNU, New Delhi

Resource persons:

1. Prof MC Dash
2. Dr JM Julka
3. Dr Tunira Bhadhuria
4. Dr R Paliwal

Venue: Dept of Environmental Sciences, JNU, New Delhi

Duration: 3 days; August 8-10, 2008

Detailed Programme

August 8-10, 2008, Dept of Environmental Sciences, JNU, New Delhi

Day	Event/ Activity
Friday, August 8	
9:00	Registration
9:30-10:30	Introduction to Earthworms - JM Julka <ul style="list-style-type: none">• Basic body plan of earthworms (Segments, shape, setae, conventions)• Earthworm distribution (habitat, limiting factors)
10:30-11:00	Tea
11:00-12:00	Basic Morphology of Earthworms - JM Julka <ul style="list-style-type: none">• External characters: Prostomium, setae, clitellum, genital markings, pores, grooves/ furrows, etc.
12:00-13:00	Quantitative Ecology I - (MC Dash)
13:00-14:00	Lunch
14:00-17:00	Practical Session – JM Julka, Tunira Bhadhuria & R Paliwal <ul style="list-style-type: none">• Collection and preservation of earthworms (taxonomic & molecular studies, writing labels, storage)• Equipment for earthworm practicals• Body measurements & counting of segments• Recognising external morphological characters
Saturday, August 9	
9:00-10:00	Basic Morphology of Earthworms – JM Julka

10:00-10:30	<ul style="list-style-type: none"> • Internal characters ⇒ Pigmentation ⇒ Digestive system (gizzard, oesophagus, calciferous glands, intestine, beginning of intestine, typhlosole, intestinal caeca and glands, etc.) ⇒ Vascular system (dorsal & ventral vessels, hearts, etc.) ⇒ Nervous system
	Tea
10:30-11:30	<p>Basic Morphology of Earthworms – JM Julka</p> <ul style="list-style-type: none"> • Internal characters ⇒ Excretory system (Holonephric, meronephric, exonephric, enteronephric, different types of nephridia: open, closed, tufted, stomate) ⇒ Reproductive system <ul style="list-style-type: none"> ○ Male: testes, seminal vesicles, testis sacs, male funnels, copulatory, genital and penial setae, prostates ○ Female: ovaries, ovisacs, funnels, spermathecae
11:30-13:00	<p>Quantitative Ecology II – MC Dash</p>
13:00-14:00	Lunch
14:00-17:00	<p>Practical Session – JM Julka, Tunira Bhaduria & R Paliwal</p> <ul style="list-style-type: none"> • Dissecting earthworm • Recognising internal morphological characters
Sunday, August 10	
9:00-10:00	Earthworm Diversity & Classification – JM Julka
10:00-10:30	Tea
10:30-12:00	<p>Characterisation of Indian earthworm families – JM Julka</p> <ul style="list-style-type: none"> • Family Moniligastridae • Family Lumbricidae • Family Ocnerodrilidae • Family Acanthodrilidae • Family Octochaetidae • Family Megascolecidae • Family Eudrilidae • Family Glossoscolecidae • Family Almididae
12:00-13:00	Quantitative Ecology III – MC Dash
13:00-14:00	Lunch
14:00-15:00	<p>Practical Session – JM Julka, Tunira Bhaduria & R Paliwal</p> <ul style="list-style-type: none"> • Using keys for identification of earthworms • Identification of earthworms up to family level (Moniligastridae, Lumbricidae, Ocnerodrilidae, Acanthodrilidae,

	Octochaetidae, Megascolecidae, Eudrilidae, Glossoscolecidae, Almidae)
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