

Transactions

Institute of  
Indian Geographers



TRANSACTIONS OF THE INSTITUTE  
OF  
INDIAN GEOGRAPHERS

11g

Vol. 5

No. 2

July-1983

DEPARTMENT OF GEOGRAPHY, UNIVERSITY OF POONA  
GANESHKHIND, PUNE 411 007

## CONTENTS

|  |  |     |
|--|--|-----|
| PRAMILA KUMAR<br>LAKHESHWAR PRASAD<br>BAGHEL | The Ken and its Gorge—Some Explanations  | 95  |
| GOPAL KRISHAN                                | Administrative Geography   | 101 |
| SWAPNA BANERJEE<br>S. BARMAN                 | Input Availability and modern<br>Agriculture in Burdwan District,<br>West Bengal,  | 109 |
| JHUJAR SINGH                                 | Spatial Organization of Agriculture<br>in a North Indian Village :<br>Deductive Model  | 115 |
| K. M. KULKARNI<br>G. THANGAVEL               | Demographic Characteristics and<br>Functional Base of Urban Agglomeration<br>and their Outgrowths of in Gujrat, India          | 127 |
| H. N. MISRA                                  | Informal sector in Indian Cities :<br>A case study of Rickhaw Pullers in<br>Allahabad City                                     | 137 |
| VISHWAS S. KALE                              | The Indian Peninsular Movements,<br>Western Ghat Formation and their<br>Geomorphic Repercussions                               | 145 |
| KAILASH CHOUBEY<br>P. D. TIWARI              | Problems of Nutritional Deficiencies<br>in Rural Areas of Madhya Pradesh :<br>A Case Study of Rewa Plateau                     | 157 |
| MANJURANI PATNAIK<br>JAYANT KUMAR ROUTHAY    | Intensity of Drought and Spatial<br>Variation of Agricultural<br>Development : A Case Study of<br>Kalahandi District in Orissa | 165 |
| H. CHANDRA SHEKHAR<br>C. NAGANNA             | A Geomorphic Study of the<br>Chikkahagari Basin in Karnataka, India  | 171 |
| A. G. JAMKAR<br>S. M. BHAMRE                 | Morphometric Analysis of River<br>Panzara and her Important<br>Tributaries : A Case Study                                      | 183 |
|  | Notes and News   | 189 |
|  | Book Review  | 192 |
|  | In Memoriam  | 195 |

INSTITUTE OF INDIAN GEOGRAPHERS  
GOVERNING COUNCIL

*PRESIDENT*      **S. C. Gupte**

*VICE-PRESIDENTS*      **K. P. Kshirsagar**  
                                 **A. Ramesh**  
                                 **S. D. Shinde**  
                                 **D. M. Wagh**

*SECRETARIES*      **V. S. Datye**  
                                 **P. R. Karmarkar**  
                                 **S. B. Sawant**

*SECRETARY FOR  
FOREIGN CORRESP.*      **Mrs. Jaymala Diddee**

*TREASURER*      **S. R. Jog**

*MEMBERS*      **B. Arunachalam**  
                                 **B. Banerjee**  
                                 **S. P. Date**  
                                 **K. R. Dikshit**  
                                 **N. G. Jain**  
                                 **P. D. Mahadev**  
                                 **P. T. Malshe**  
                                 **A. B. Mukherjee**  
                                 **C. P. Singh**  
                                 **K. N. Singh**

*EDITORIAL COMMITTEE*      **V. S. Datye**  
                                 **K. R. Dikshit**  
                                 **Mrs. J. K. Dikshit**  
                                 **S. C. Gupte**

*EDITOR*      **K. R. Dikshit**

## INSTRUCTIONS TO AUTHORS

All manuscripts of papers, short articles, and book reviews intended for publication in the 'Transactions' should be sent in duplicate to –

The Editor  
Transactions of the Institute of Indian Geographers  
Department of Geography  
University of Poona  
Pune – 411 007

Manuscripts should be typewritten only on one side of the paper and double spaced. Titles and subtitles have to be brief and precise. Below the title, only the name of the author and his city should be given. Complete address of correspondence should be given at the end. An abstract of the paper not exceeding 200 words has to precede the main text of the paper. Reference in the text should be given in brackets in the order (author and year). Footnotes should not be given unless indispensable.

References, to be given at the end of the paper, have to be listed alphabetically by author (with the year of publication after the author's name). The titles of books and journals should be underlined (to be italicised) with volume number to be double underlined (to be set in bold face) followed by page numbers expressed by the first and the last page of the paper. In case of books, the place of publication should be given at the end.

Schumm, S. A. (1977) : The Fluvial System ( London )  
Bunge, W. (1966) : Gerrymandering, Geography and grouping  
Geog Rev. 55:255–63

Illustrations should be submitted as clear black originals. Illustrations which cannot be reduced to the 12cm. × 17cm. size will be accepted only in exceptional cases. Captions for illustrations must be typed on a separate sheet, and figures and photos have to be numbered consecutively in Arabic and Roman numbers respectively.

Papers already published or under consideration should not be submitted  
Authors will receive 25 reprints of their articles free of charge.

---

The editor is not responsible for the views expressed by the authors.

## NOTES AND NEWS

### The Indian Geographers Meet : The Fourth Annual Conference of the Institute of Indian Geographers

The fourth annual conference of the IIG hosted by the Shivaji University, Kolhapur, was held from 11 to 13th of Feb. 1983. A special one day seminar on 'Sugarcane Cultivation and Sugarcane based Industries' was organised on 12th Feb. 1983.

About 185 Geographers from all over the country participated in the conference. The President of the Meet Prof. S. D. Shinde in his welcome address, appealed to the fellow geographers to be precise and keen in their research activities. Prof. S. C. Gupte, the President of IIG, pleaded for keeping a balance between man and environment while planning for betterments of the society in the developing countries.

While delivering the key-note address Prof. C. D. Deshpande emphasised the need of such conferences where senior and junior geographers meet on the same platform, exchange their views and improve the quality of research. Prin. R. K. Kanbar-kar, Vice-Chancellor, Shivaji University, presided over the function. While delivering presidential address, he stated that research of today need not be only for research sake, but it should be for the betterment of the society

#### Sessions

About 100 papers were submitted of which 60 were presented by the authors themselves on one or more of the following topics

- |                          |   |
|--------------------------|---|
| 1. Geomorphology         | 5 |
| 2. Climatology & Ecology | 6 |

- |   |    |
|---|----|
| 3. Agricultural Geography                               | 11 |
| 4. Industrial & Transport Geography                     | 1  |
| 5. Sugarcane Cultivation and Sugarcane based Industries | 11 |
| 6. Urban & Rural Settlements                            | 14 |
| 7. Population Geography                                 | 4  |
| 8. Applied Geography                                    | 8  |

Two parallel sessions were arranged for three days, both in the morning as well as in the evening. The number of papers was more in the field of Agricultural geography and urban rural settlements. The papers in Agricultural geography were presented in two different sessions presided over by Prof. B. Bannerjee (Calcutta) and Prof. R. D. Dikshit (Patiala), Mr. Smita Joshi and V. S. Datye worked as rapporteurs. Papers on the landuse, irrigation, land productivity, crop concentration and diversification were presented and followed by lively discussions.

The sessions on Geomorphology were presided over by Prof. C. D. Deshpande and Prof. Savindra Singh (Allahabad), and Dr. Pofali R. M. and Dr. J. Dikshit worked as rapporteurs. The papers presented covered a wide range of topics like morphological analysis of streams, remote sensing technique, glacial landscape, solpes mapping and several other aspects.

Mr. N. G. Jain (Nagpur) presided over the session on Climatology and Ecology. Dr. S. B. Sharan worked as a rapporteur. Papers on environmental pollution, depressions and cyclonic storm, thermal continentality

variations, energy from ocean resources and Biogeography were presented. It was followed by excellent slide show and lecture on Eco-system by Dr. Barucha ( a guest participant from Poona) The session on Applied geography was presided over by Dr. Mrs. Anjana Desai (Ahmedabad) and reported by G. Prasad. Most of the papers presented were on urban and regional planning and development. Very few papers were presented under the session of Industrial and Transportation geography which was presided by Dr. Mrs. Anjana Desai and reported by P. N. Mishra.

The papers presented under the theme urban and rural settlements divided into three sessions were presided over by Prof. K. R. Dikshit, Dr. P. T. Malshe and Dr. S. B. Sawant. Veena Suryanarayan, P. N. Mishra and H. S. Sharma worked as rapporteurs. Various current urban problems were represented through case studies. Impact of urbanisation, fringe area, size and shape of rural settlements, rural market centres and some methodological papers were also presented. The session on population geography was presided over by Mr. S. P. Date, and Jay-Kumar Magar worked as a rapporteur. Aspects like population growth, dispersion and migration of population, were highlighted.

#### **Seminar on Sugarcane Cultivation and Sugarcane Based Industries**

Taking into account the present situation and problems faced by sugarcane cultivation and sugar industries, one-day seminar was organised on the topic and it received a very good response from geographers, agricultural scientists, local cultivators and social workers from different parts of the country.

Shri Balasaheb Vikhe Patil, M. P. Chairman, Maharashtra Rajya Sahakari Sakhar Karkhana Sangh, Bombay, who was to give the inaugural address could not come and his speech was read by Prof. S. C. Gupte. He pointed out that India ranks

first among 107 sugarcane producing countries. Further he stated that though in terms of area under cultivation sugarcane ranks tenth in the country in term of value it is the third important crop next to rice and wheat. After examining the various aspects of sugarcane cultivation and sugar industries, he suggested that sincere efforts should be made to open the channel of sugar export to china. This may indirectly lead to improvement of relations between the two countries.

While releasing the Souvenir of I. I. G. Meet, Shri Shripatrao Bondre, M. L. A., revealed that during the last two decades the area under cane cultivation has increased tremendously, but the yield per hectare is on the decline. He pointed out that the ever mounting cost of imports on the one hand, and the low prices of sugarcane and jaggery have made the farmers almost bankrupt.

Shri Tatyasaheb Kore, Chairman, Warana Sahakari Sakhar Karkhana, Warananagar, presided over the function. He mentioned specifically the role of sugar factories in the social, cultural, educational and economic development of Maharashtra. However, today, this industry is passing through crisis. To overcome this problem, he emphasised the production of biogas, various chemicals and paper from sugarcane and its waste product in addition to sugar.

The keynote address of the seminar was delivered by Dr. D. G. Hapase, Sugarcane Specialist and Zonal leader, Peninsular India (A. I. C. R. P.) Padegaon. He covered different aspects of cane cultivation and pointed out the disparities in cane productivity in India with special reference to Maharashtra. While speaking about sugar recovery, he mentioned that Kolhapur district ranks first in India. With statistics and graphs he explained the reasons for the disparities in yield and sugar recovery and suggested various measures to improve it. He states that "To make the sugarcane crop more paying and its cultivation more

remunerative there is no way out but to go in for its various industrial uses. ”

About a dozen papers on sugarcane cultivation, intercropping, yield and recovery and such other aspects were presented. Papers on sugar industry of different areas were also discussed. Case studies of the cane cultivation, sugar industry and its impact on socio-economic condition were also presented. Sugar industry and its contribution to regional growth was discussed at length.

#### Valedictory

The valedictory function was held on 13th Feb. at 12.30 p. m. of which Prof. K. R. Dikshit, Founder President of the Institute was the chief guest. Some delegates viz. Dr. Savindra Singh, Mr. Jain, Dr. Mrs. Rangaswami, Dr. Miss C. Parimala, thanked the hosts for arranging

the conference and making it a great success. Dr. S. D. Shinde, President of the Meet, gave his observation about the Meet and exhorted the young geographers to select a specific branch of the discipline and develop expertise in it. The president of the valedictory function, Prof. K. R. Dikshit insisted on maintaining quality in research. Lastly Prof. S. G. Gupte, the president of I. I. G. and Dr. P. W. Deshmukh, the Secretary of the Meet proposed a vote of thanks.

#### General Body Meeting

The annual meeting of general body of the institute was held at 4.00 p. m. on 13th Feb. 83 in the department of Geography, Shivaji University, Kolhapur, and settling of the yearly account and other items were considered. Prof. S. C. Gupte, Presidents was in the chair.

### ANNOUNCEMENT

Indian Geographers Meet,  
The Fifth Annual Conference of the I.I.G.  
Place ; Ahmedabad,  
Date : 9, 10, 11th of Feb. 1984.

The Institute has received invitation from Gujarat University, to hold the Fifth Annual Conference at Ahmedabad. The invitation was extended personally by Mrs. Dr. Anjana Desai, Head, Department of Geography, Gujarat University, on behalf of her

Universiety. The dates of the conference are 9, 10 and 11th of Feb. 1983. All correspondence in this regard should be addressed to

Dr. ( Mrs.) Anjana Desai,  
Convener,  
Fifth Annual Conference  
Deptt. of Geography,  
Gujarat University,  
Ahmedabad. ( Gujarat )