

SEMINARS - ANCON CONFERENCE ROOM

The luncheon talk scheduled for Tuesday, August 25, will be given by JACQUES VAN ALPHEN from the University of Leiden in the Netherlands. His subject:

How Insect Parasitoids Find their Hosts.

"During their short adult lives female hymenopterous parasitoids must find and parasitize as many hosts as possible. Epidinocarsis loperia, a parasitoid of the cassave mealy bug, and larval parasitoids of Drosophila will be discussed."

The same evening MICHAEL H. ROBINSON from the Smithsonian National Zoological Park will speak on "Beyond the Zoo - the Biopark. A New Concept in Biological Exhibition" at 7 p.m. All staff, fellows and visitors are invited.

NEXT WEEK

The luncheon seminar on Tuesday, September 1, will be given by JOHN C. AVISE from the University of Georgia. His subject:

Mitochondrial DNA and the Evolutionary Genetics of Higher Animals.

ARRIVALS & DEPARTURES

Arrived last week, 3 OTS students to visit BCI.

Arriving the week of August 23, Drs. Michael Robinson, Edward Bronikowski, Rick Hider, Lynn Dolnick, Gaetano Calise and Robert Milcahy from the National Zoological Park to gather ideas for Biopark concept.

September 26 - Departing, Stanley Rand for Miami and official business in Washington, D.C. until September 10.

1987 PUBLICATIONS BY STRI STAFF, FELLOWS & RESEARCH ASSOCIATES

Dressler, R.L. 1987. Cladistic analysis of the orchidaceae: a commentary. *Lindleyana* 2(1): 66-71.

LIBRARY NEWS

Please be aware that the new books being received from the Radiation Biology Lab have book pockets and checkout cards on the inside back cover, instead of the inside front cover.

REMINDER

PLEASE REMEMBER THAT ALL PERSONS PLANNING TO LEAVE PANAMA MUST REQUEST PAZ Y SALVOS AND EXIT PERMITS AHEAD OF TIME. It is very difficult to get these documents with one or two days advance notice. At least 10 working days for paz y salvos and 5 working days for exit permits are required.

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FAVOR RECORDAR QUE TODAS LAS PERSONAS QUE ESTEN PLANEANDO SALIR DE PANAMA DEBEN SOLICITAR SU PAZ Y SALVO Y PERMISO DE SALIDA CON SUFICIENTE ANTICIPACION. Recuerde que algunas veces no es posible llevar a cabo el tramite de estos documentos con solo uno o dos dias de anticipacion. Se necesitan por lo menos 10 dias habiles para solicitar el paz y salvo, y 5 dias habiles para solicitar el permiso de salida.

DE LA PERSONNEL OFFICE

Tal como fuera anunciado en los medios locales, a partir de la primera quincena del mes en curso entro en vigencia la ley que incrementa las aportaciones al Seguro Educativo. Dicho aumento representa un .5%, un incremento de .75% a 1.25%. Ya se han dado las instrucciones pertinentes al Depto. de Planillas en Washington para que comiencen a efectuar dichos descuentos.

ASSISTANT AVAILABLE

LOCK ROGERS is interested in volunteering his services in marine research for any period of time between October 1987 and August 1988. He would only require food and lodging. Mr. Rogers has a BS from the Univ. of Georgia and SCUBA certification.

HOUSE AVAILABLE

House sitter needed for house and jeep in Diablo, 5-6 weeks beginning last week in September. If interested, call R. Robertson at Naos (52-5840/28-4060).

BIRTHDAY GREETINGS

Belated birthday greetings to Elena Lombardo and Don Windsor. One year older this month are Ross Robertson and Mary Jane West-Eberhard.

## COURSES & LUKSUS

14 September - 3 October 1987

The VIII Curso Regional Itinerante Post Universitario en Hidrologia y Ciencias del Agua (CRICA) will take place at the Universidad Tecnologica de Panama sponsored by UNESCO. The main theme is "Hydraulics of Flow and Transport of Sediments". If interested please call 66-8011/8171.

15 September - 14 November 1987

The 5th Curso de Especializacáo em Primatologia: Conservacáo em Areas de Grande Impacto Ambiental will take place in the Universidade de Brasilia, Brazil. Registration is open.

12 - 16 October 1987

The Western Atlantic Turtle Symposium II (WATS) will take place in Mayaguez, Puerto Rico. The purpose of this symposium is to present all available data on the status and exploitation of the six sea turtle species in the W. Atlantic, and to review and evaluate conservation and recovery needs and management options. Pre-registration is open.

17 - 22 April 1988

The VI Simposium de la Asociacion Latino Americana de Acuicultura and the V Simposio Brasileiro de Acuicultura will take place in Florianopolis, Brasil. Registration now open.

May/ June 1988

CATIE is announcing their 12-week XI Curso Anual de Planificacáo y Manejo de Areas Silvestres, which is a graduate course open to students from Central America and the rest of Latin America. For more information contact Dr. L. Hurtado de Mendoza, CATIE, Turrialba, Costa Rica.

## NEW BOOKS

- ANIMAL ORIENTATION AND NAVIGATION: PAPERS.(Sidney R. Galler et al.editors, 1972) QL782.S9 STRI  
ATLAS OF ENERGY BUDGETS OF PLANT LEAVES(David M. Gates and LaVerne E. Papian, 1971)QK755.G38 STRI  
BIOCHEMISTRY AND PHYSIOLOGY OF PLANT HORMONES(Thomas C. Moore, 1979)QK731.M66  
DNA MAKES RNA MAKES PROTEIN(Tim Hunt, Steve Prentis, and John Tooze, editors, 1983)QH442.D62 STRI  
DORMANCY AND THE SURVIVAL OF PLANTS(Trevor Angus Villiers, 1975)QK761.  
DYNAMIC ASPECTS OF PLANT ULTRASTRUCTURE(A.W.Robards editor, 1974)QK725.  
EFFECTS OF SOLAR ULTRAVIOLET RADIATION ON PHOTOSYNTHESIS OF HIGHER PLANTS (Khac Thai Van, 1975)QK757.V217STR I  
EXPERIMENTAL MANIPULATION OF GENE EXPRESSION(Masayori Inouye, editor, 1983) QH442.E96STR I  
EXPERIMENTS IN MOLECULAR GENETICS(Jeffrey H. Miller, 1972)QH440.4.M54STR I  
HORMONAL REGULATION IN PLANT GROWTH AND DEVELOPMENT...(Harald Kaldewey Yusuf Vardar, editors, 1972) QK731.A35 STR I  
IMPACT OF GENE TRANSFER TECHNIQUES IN EUKARYOTIC CELL BIOLOGY(P. Starbuck and J. Schell, editors, 1984) QH442.G48 STR I  
INDUCTION OF FLOWERING: SOME CASE HISTORIES.(L.T. Evans, editor, 1969) QK830.E92 STR I  
INTRODUCTION TO RECOMBINANT DNA TECHNIQUES: BASIC EXPERIMENTS IN GENE MANIPULATION(Perry B. Hackett, James A. Fuchs, and Joachim W. Messing, 1984) QH442.H33 STR I  
MOLECULAR BIOLOGY OF PLANT CELLS(H. Smith, editor, 1977)QK725.M75STR I  
MOLECULAR BIOLOGY OF PLANTS: A LABORATORY COURSE MANUAL(Russell Malmberg, 1984) QK981.M35 STR I  
NATURAL PLANT GROWTH INHIBITORS AND PHYTOHORMONES( V.I. Kefeli, 1978) QK731.K39 STR I  
PHOTOPERCEPTION BY PLANTS...(P.W. Wareing and H. Smith, editors, 1983) QK757.P57STR I  
PHYSIOLOGICAL DETERMINANTS OF CROP GROWTH(D.A. Charles-Edward, 1982) QK731.C47STR I  
PHYTOCHEMISTRY(Lawrence Peter Miller, 1973) QK861.M633STR I  
PHYTOHORMONES AND RELATED COMPOUNDS: A COMPREHENSIVE TREATISE(D.S. Letham, P.B. Goodwin, and T.J.V. Higgins, editors, 1978)QK731.P58STR I  
PLANT BIOPHYSICS(D.M. Grodzinskii, 1972)QK754.G87STR I  
PLANT CELL PHYSIOLOGY: A PHYSICOCHEMICAL APPROACH(Park S. Noble, 1970) QK725.N57STR I  
PLANT MOLECULAR BIOLOGY(Robert B. Goldber, editor, 1983)QK981.A73STR I  
PLANT TISSUE AND CELL CULTURE(Herbert E. Street, editor, 1977) 2nd ed. QK725.S789 STR I  
PLANTS AND TEMPERATURE(James Frederick Sutcliffe, 1977) QK755.S95STR I  
PLASTIDS: THEIR CHEMISTRY, STRUCTURE, GROWTH AND INHERITANCE(John T.O.Kirk, and Richard A.E. Tilney-Bassett, 1967)QK899.K59STR I  
STRUCTURE AND FUNCTION OF PLANT GENOMES(Orio Ciferri and Leon Durelli, 1983) QK981.N37STR I  
TRANSPORT PHENOMENA IN PLANTS(D.A.Baker, 1978)QK871.B28STR I  
VARIABILITY IN PLANTS REGENERATED FROM TISSUE CULTURE(E.D. Earle and Y. Demarly, editors, 1982) QK840.V37 STR I

**THE EXOTIC CORNER - BITS AND PIECES**

(Taken from the issue of Scientific American in May 1887.)  
 "The prospects for a canal at Panama seem more illusive as time goes on, and not even the skill and perseverance of the French engineers has so far sufficed to lend to the scheme the air of practicability. Indeed, the tenacity with which these engineers adhere to the work must be regarded as remarkable by those who know how formidable and disheartening have been the obstacles: the deadliness of the climate, the necessity for a monstrous dam at Gamboa, the great difference in level between the Atlantic and Pacific oceans and the disappointing character of the rock to be cut into in the mountain section."

**Anniversary**

Annette Aiello's phone has officially been dead for one year.

**New Tivoli Office Timetable**

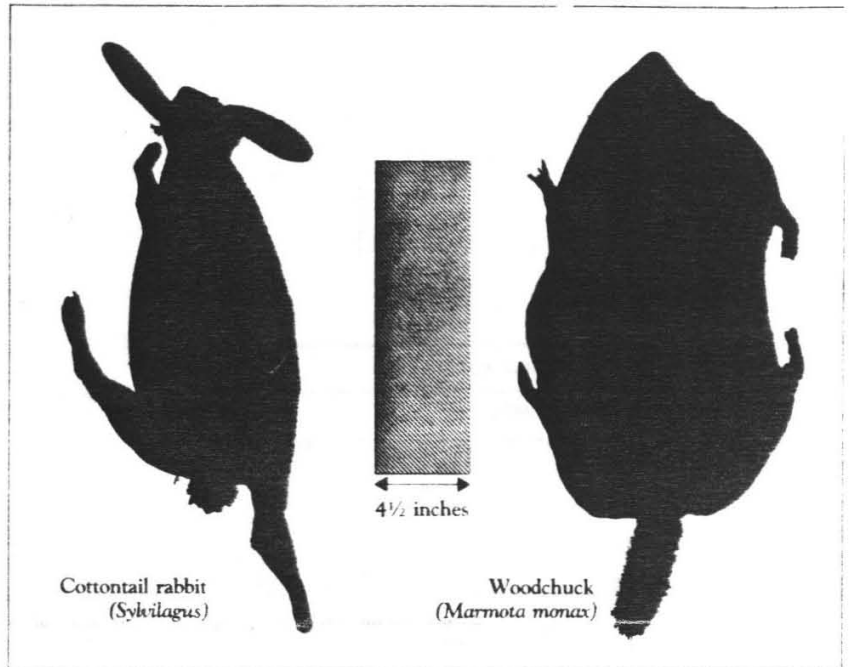
- 9:00 Starting time
- 9:30 Arrive
- 9:45 Coffee break
- 11:00 Work break
- 11:15 Prepare for lunch
- 12:00 Lunch
- 2:45 Afternoon break
- 3:00 Tea break
- 4:00 Prepare to go home
- 4:30 Go home
- 5:00 Leaving time

(courtesy of G. de Alba)

See next issue for more wishful thinking.

[Silhouettes]

**A FIELD GUIDE TO ROAD KILLS**



From Flattened Fauna: A Field Guide to Common Animals of Roads, Streets, and Highways, by Roger M. Knutson, published by Ten Speed Press. The silhouettes show how each species appears after being run over. The scale at center represents four and a half inches, the width of a road's dividing line. Knutson teaches biology at Luther College in Decorah, Iowa.

**Summary**

**STRI Post doctoral fellowships**

| Year         | applicants |           | recipients |           | % success |           |
|--------------|------------|-----------|------------|-----------|-----------|-----------|
|              | male       | female    | male       | female    | male      | female    |
| 87           | 16         | 8         | 5          | 1         | 31        | 13        |
| 86           | 20         | 7         | 6          | 1         | 30        | 14        |
| 85           | 15         | 6         | 4          | 1         | 27        | 17        |
| 84           | 12         | 4         | 5          | 3         | 42        | 75        |
| 83           | 11         | 5         | 2          | 2         | 18        | 40        |
| 82           | 14         | 12        | 0          | 4         | 0         | 33        |
| 81           | 16         | 7         | 2          | 2         | 13        | 29        |
| 80           | 18         | 3         | 3          | 2         | 17        | 67        |
| 79           | 11         | 4         | 2          | 0         | 18        | 0         |
| 78           | 11         | 3         | 2          | 0         | 18        | 0         |
| <b>Total</b> | <b>144</b> | <b>59</b> | <b>31</b>  | <b>16</b> | <b>22</b> | <b>27</b> |

|              | Male       | Female    | Total      |
|--------------|------------|-----------|------------|
| Unsuccessful | 113        | 43        | 156        |
| Successful   | 31         | 16        | 47         |
| <b>Total</b> | <b>144</b> | <b>59</b> | <b>203</b> |

X<sup>2</sup> = .7352693

(courtesy of S. Rand)

PANAMA NEW POSTAGE RATES

| TARIFA DEL SERVICIO POSTAL |        |                   |         |          |
|----------------------------|--------|-------------------|---------|----------|
| INTERNO                    |        |                   |         |          |
| ESCALA DE PESO             | CARTAS | TARJETAS POSTALES | IMPRESO | PAQUETES |
| (GRAMOS)                   | B/.    | B/.               | B/.     | B/.      |
| 20                         | 0.20   | 0.15              | 0.10    |          |
| 50                         | 0.35   |                   | 0.15    |          |
| 100                        | 0.45   |                   | 0.35    |          |
| 250                        | 1.00   |                   | 0.48    |          |
| 500                        | 1.50   |                   | 0.60    |          |
| 1000                       | 2.00   |                   | 1.00    | 0.85     |
| 2000                       | 3.00   |                   | 1.50    | 1.35     |
| 3000                       |        |                   | 2.00    | 1.60     |
| 4000                       |        |                   | 2.50    | 1.85     |
| 5000                       |        |                   | 3.00    | 2.10     |
| 6000                       |        |                   | 3.50    |          |
| 7000                       |        |                   | 4.00    |          |
| 8000                       |        |                   | 4.50    |          |
| 9000                       |        |                   | 5.00    |          |
| 10000                      |        |                   | 5.50    |          |

| SERVICIO AEROPOSTAL |         |        |                     |
|---------------------|---------|--------|---------------------|
| CARTAS              |         |        |                     |
| ESCALA DE PESO      | AMERICA | EUROPA | ASIA AFRICA OCEANIA |
| (GRAMOS)            | B/.     | B/.    | B/.                 |
| 320                 | 5.27    | 7.67   | 12.01               |
| 330                 | 5.37    | 7.83   | 12.31               |
| 340                 | 5.47    | 7.99   | 12.61               |
| 350                 | 5.57    | 8.15   | 12.91               |
| 360                 | 5.67    | 8.31   | 13.21               |
| 370                 | 5.77    | 8.47   | 13.51               |
| 380                 | 5.87    | 8.63   | 13.81               |
| 390                 | 5.97    | 8.79   | 14.11               |
| 400                 | 6.07    | 8.95   | 14.41               |
| 410                 | 6.17    | 9.11   | 14.71               |
| 420                 | 6.27    | 9.27   | 15.01               |
| 430                 | 6.37    | 9.43   | 15.31               |
| 440                 | 6.47    | 9.59   | 15.61               |
| 450                 | 6.57    | 9.75   | 15.91               |
| 460                 | 6.67    | 9.91   | 16.21               |
| 470                 | 6.77    | 10.07  | 16.51               |
| 480                 | 6.87    | 10.23  | 16.81               |
| 490                 | 6.97    | 10.39  | 17.11               |
| 500                 | 7.07    | 10.55  | 17.41               |
| 510                 | 8.78    | 12.72  | 19.72               |
| 520                 | 8.88    | 12.88  | 20.02               |
| 530                 | 8.98    | 13.04  | 20.32               |
| 540                 | 9.08    | 13.20  | 20.62               |
| 550                 | 9.18    | 13.36  | 20.92               |
| 560                 | 9.28    | 13.52  | 21.22               |
| 570                 | 9.38    | 13.68  | 21.52               |
| 580                 | 9.48    | 13.84  | 21.82               |
| 590                 | 9.58    | 14.00  | 22.12               |
| 600                 | 9.68    | 14.16  | 22.42               |

| IMPRESOS         |         |        |                     |
|------------------|---------|--------|---------------------|
| ESCALAS DE PESOS | AMERICA | EUROPA | ASIA AFRICA OCEANIA |
| (GRAMOS)         | B/.     | B/.    | B/.                 |
| 15               | 0.17    | 0.23   | 0.37                |
| 20               | 0.22    | 0.31   | 0.52                |
| 30               | 0.34    | 0.48   | 0.69                |
| 45               | 0.39    | 0.56   | 0.84                |
| 50               | 0.44    | 0.64   | 0.99                |
| 60               | 0.57    | 0.81   | 1.23                |
| 75               | 0.62    | 0.89   | 1.38                |
| 90               | 0.67    | 0.97   | 1.53                |
| 100              | 0.72    | 1.05   | 1.68                |
| 105              | 0.98    | 1.40   | 2.10                |
| 120              | 1.03    | 1.48   | 2.25                |
| 135              | 1.08    | 1.56   | 2.40                |
| 150              | 1.13    | 1.64   | 2.55                |
| 165              | 1.18    | 1.72   | 2.70                |
| 180              | 1.23    | 1.80   | 2.85                |
| 195              | 1.28    | 1.88   | 3.00                |
| 210              | 1.33    | 1.96   | 3.15                |
| 225              | 1.38    | 2.04   | 3.30                |
| 240              | 1.43    | 2.12   | 3.45                |
| 250              | 1.48    | 2.20   | 3.60                |
| 255              | 1.91    | 2.75   | 4.22                |
| 270              | 1.96    | 2.83   | 4.37                |
| 285              | 2.01    | 2.91   | 4.52                |
| 300              | 2.06    | 2.99   | 4.67                |
| 315              | 2.11    | 3.07   | 4.82                |
| 330              | 2.16    | 3.15   | 4.97                |
| 345              | 2.21    | 3.22   | 4.97                |
| 360              | 2.26    | 3.31   | 5.27                |