

stay, Boomsma the effects of variation in queen number on colony sex allocation, Nonacs polygyny and life history parameters, and Queller the estimation of relatedness between lineages within colonies. The natural history background is covered for highly eusocial (Hughes *et al.*, Peeters, Herbers, Elmes and Keller, Rosengren *et al.*, Heinze, Carlin *et al.*, and Roisin, the last contributing the only non-Hymenoptera chapter) and primitively eusocial species (Itô, Gadagkar *et al.*, Packer).

Evolutionary biology stresses extrinsic factors molding the characteristics of organisms—that is what selection and adaptation are all about, hence the ecological slant here. And yet molecular biology has important contributions to make here too. Queller notes that new molecular markers enable many more questions to be answered than hitherto, as demanded by insatiable theorists. Polygyny also affects caste-determination, as shown by changes in the relative sizes of queens and workers, so that it would be cogent for polygyny researchers to ask about the evolving thresholds for queenness and about genes active in one caste but not another. What about the impact of selfish genetic elements, which are potentially more important in polygyny than under monogyny? The games-theoretic approach may be incomplete without attention to such factors, and to possible constraints.

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Books Received

Ancient DNA. Recovery and Analysis of Genetic Material from Paleontological, Archaeological, Museum, Medical, and Forensic Specimens. Bernd Herrmann and Susanne Hummel, Eds. Springer-Verlag, New York, 1994. xii, 263 pp., illus. Paper, \$34.95.

The Butterflies of the West Indies and South Florida. David Spencer Smith, Lee D. Miller, and Jacqueline Y. Miller. Richard Lewington, illustrator. Oxford University Press, New York, 1994. x, 264 pp., illus., + plates. \$125.

Control of Spacecraft and Aircraft. Arthur E. Bryson, Jr. Princeton University Press, Princeton, NJ, 1994. xxvi, 378 pp., illus. \$55 or £35.

Design Paradigms. Case Histories of Error and Judgment in Engineering. Henry Petroski. Cambridge University Press, New York, 1994. xii, 209 pp., illus. \$42.95; paper, \$17.95.

Empirico-Statistical Analysis of Narrative Material and Its Applications to Historical Dating. A. T. Fomenko. Kluwer, Norwell, MA, 1993. 2 vols. Vol. 1, The Development of the Statistical Tools. xxii, 204 pp., illus. Vol. 2, The Analysis of Ancient and Medieval Records. xiv, 455 pp., illus. The two, \$282 or £186 or Dfl. 465. Translated from the Russian.

Galileo. For Copernicanism and for the Church. Annibale Fantoli. Vatican Observatory Publications, Vatican City State, Rome, 1994 (U.S. distributor, University of Notre Dame Press, Notre Dame, IN). xx, 540 pp., illus. Paper, \$21.95. Studi Galileiani, vol. 3. Translated from the Italian edition by George V. Coyne.

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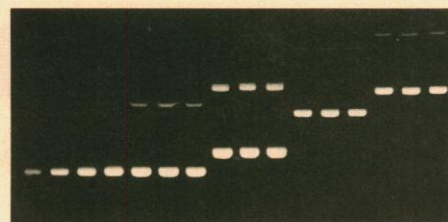
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