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Biodiversity, Bioprospecting, Development: Areas of Interest

Robert E. Baier, Ph.D., P.E. Biomaterials Graduate Program and Industry/University Center for Biosurfaces, University at Buffalo



20 December 1968, Volume 162, pp. 1360-1368

Adhesion: Mechanisms That Assist or Impede It

An interdisciplinary approach relates present knowledge of adhesion to bioadhesional problems.

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R. E. Baier, E. G. Shafrin, W. A. Zisman

AREAS OF RESEARCH IN BIOADHESION

DENTAL RESTORATIVES SURGICAL ADHESIVES PROSTHETIC IMPLANTS EXTRACORPOREAL CIRCUITS BLOOD CLOTTING MARINE FOULING















Diagnostic Liquids: distilled water, glycerol, methylene iodide, bromonaphthalene, methylnaphthalene, dicyclohexyl tridecane, decane, octane













Cardiomat - Poly. Cardiomat-40/ RTV 40 urethane Polyurethane 3140 Test samples after 1 month in Atlantic Ocean

FGr Control

ARRAY KOI

Cardiomat- Poly. Cardiomat-40/ RTV FG 40 urethane Polyurethane 3140 Control

ARRAY KOI



Test samples after 1 month in Pearl Harbor, HI

Hydroides elegans [tubeworms]

Mechanical Factors Favoring Release from Fouling Release Coatings

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FIGURE 4 The empirical relationship between critical surface free energy (γ_c mJ m⁻²) and relative adhesion (dimensionless) *i.e.* the "Baier curve".

Nonpolluting Control of Biosurface Fouling

A workshop to define ecologically and environmentally sensible approaches to keeping materials clean in our oceans, lakes, and other aqueous systems.

June 28-29, 1990

Center for Tomorrow

State University of New York at Buffalo North Campus, Amherst, New York



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Test panels at Dunkirk, NY (zebra mussel fouling)







Methyl silicone

Polydimethylsiloxane





Biodiversity, Bioprospecting and Development Related Journals

- Journal of Bioprocessing & Biotechniques Journal of Bioremediation & Biodegradation Journal of Bioequivalence &
- **Bioavailability**
- Journal of Biodiversity & Endangered Species



Development Related Conferences

- 3rd International Conference on Earth Science & Climate Change
 - 3rd World Congress on Biotechnology
 - <u>5thWorld Congress on Bioavailabity and</u> <u>Bioequivalence: Pharmaceutical R&D Summit</u>
 - 3rd International Conference on Biodiversity & Sustainable Energy Development



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