



Applications of Cryogenic Technology

J. Patrick Kelley

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Applications of Cryogenic Technology, Vol. 10, is the proceedings from the portion of the conference CRYO-90 sponsored by the Cryogenic Society of America (CSA). CRYO-90, held on the campus of the State University of New York, Binghamton, New York, was an unusual interdisciplinary event, drawing from the life sciences as well as the physical science and engineering areas of the low temperature community. Co-sponsoring CRYO-90 with CSA were the Society for Cryobiology and the Symposium on Invertebrate and Plant Cold Hardiness. These latter two organizations brought an exciting developing field to the conference, a field whose exploration will lead to the betterment of all mankind through improved cryosurgical and organ preservation techniques in addition to improved agricultural and herd yields under extreme conditions. Specific goals of the cryobiological community are cryopreservation, the arrest and recovery of living processes of cells, tissues and organs; and cryosurgery - the local cryodestruction of diseased cells while preserving the healthy surrounding tissue. These goals present great technological challenges. The technological requirements of the cryobiologist include the ability to cool tissues at rates of 10 degrees per second (vitrification), to thaw frozen tissue without damaging the delicate cells, to freeze dry tissue using molecular distillation (vacuum) drying, to supercool cell structures below 0°C without freezing, and to successfully store the preserved tissues and organs for any required length of time.

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