ABSTRACTS OF LECTURES

Reactivity of Pyridines and Pyridiniums

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General survey of reactivity of pyridine derivatives.
Cycloaddition of pyridinium betaines.
N-vinylpyridinium cations.
Pyridinium ylids and pyridine stabilized carbanions.
Displacement reactions on pyridinium cations.
Elimination reactions dihydropyridines.
Intramolecular rearrangement of pyridinium cations.

Manufacture and Use of Pyridine and Its Derivatives

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Reilly Tar & Chemical Corporation
1500 South Tibbs Avenue, PO Box 41076
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During the last quarter-century, synthetic pyridine and picolines have allowed the exploitation of pyridine derivative chemistry on a grand scale. Compounds with applications in medicinal, agricultural, and industrial chemical areas have been developed by functional group manipulation of the readily available derivatives. Continued growth is expected in the future as sophisticated techniques are used to manufacture more complex derivatives.

Synthesis and Selected Applications of Polymers Containing Pyridine Moieties

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The lecture will include the following: A general introduction to the application of functional polymers in organic chemistry, preparation of crosslinked polyvinylpyridines (gel resins, macroporous resins), preparation of crosslinked polymers containing pyridine moieties by chemical modification, selected applications of pyridine containing polymers in organic chemistry, and also a brief discussion of other applications of pyridine containing polymers.

Regioselective Cyanation of Pyridine-1-Oxides

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Pyridine-1-oxides are converted in essentially quantitative yield to the corresponding 2-pyridinecarbonitrile by treatment with equivalent amounts of trimethylsilanecarbonitrile and dimethylcarbamyl chloride in