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The Design, Synthesis, and Study of New Organic Conductors and Superconductors.

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The Design, Synthesis, and Study of New Organic Conductors and Superconductors.*

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In large measure the vitality of the study of low-dimensional conductors depends upon the production of novel organic compounds. This point was dramatically demonstrated with the preparation of the first organic superconductor $(TMTSF)_2PF_6$ and the first zero-pressure organic superconductor $(TMTSF)_2ClO_4$. In this presentation we will describe the synthesis, characterization, and electronic properties of several new sulfur, selenium, and tellurium organic pi-donors, as well as our progress on the synthesis of new tellurium analogs of TTF. If time permits, the recent preparation of new pi-acceptors will also be described.

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Editors' Note: A recent review of the work of Prof. Cowan's group may be found in D. O. Cowan, A. Kini, L.-Y. Chiang, K. Lerstrup, D. R. Talham, T. O. Poehler, and A. N. Bloch, Mol. Cryst. Liq. Cryst. 86, 1 (1982).