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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 Con-
ductors and Superconductors.*

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Hopkins University, Baltimore MD --

In large measure the vitality of the study of low-dimension-
al conductors depends upon the production of novel organic
compounds. This point was dramatically demonstrated with
the preparation of the first organic superconductor
(TMTSF)₂PF₆ and the first zero-pressure organic super-
conductor (TMTSF)₂ClO₄. 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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07693.

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).