

Conjugated Ionomer Electronics

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RESEARCH HIGHLIGHT - Realization of a conducting polymer pn junction using conjugated ionomers

- The pn junction is a major building block of silicon-based electronics
- It has been an elusive goal in conjugated polymer electronics for the last 25 years

*C.H.W. Cheng and M.C. Lonergan,
Journal of the American Chemical Society,
In press*

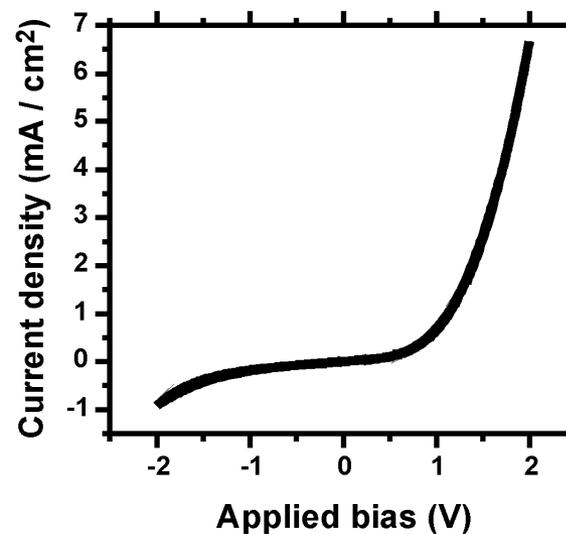
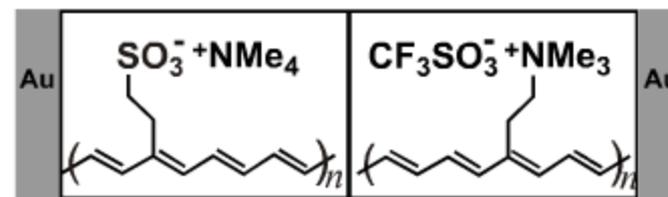


Figure 1 - Current rectification at a conjugated polymer pn junction

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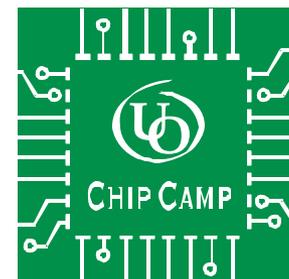
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EDUCATION HIGHLIGHT – PolyCamp and ChipCamp

- One week undergraduate summer science experiences
- Teaching the chemistry, physics, and materials science of polymers or microelectronics devices
- Programs tied together by the substantial overlap between the fields, and the Lonergan groups interest in conjugated polymer electronics.
- Students from around the US and Puerto Rico have participated



w/ Professors David Tyler
and Mike Haley



w/ Professor
Jim Hutchison

