

Memo/Reply From  
JOSHUA LEDERBERG

TO: Bob Mitchell.  
Calanese

APR 14 1981

STAB memo 4/13/81

With the minor footnotes attached I concur with all that was said. heartily

1) Electrical properties of polymers. (I am not expert but am not totally innocent) These have very exciting prospects but my intuition is that the profit will come from the devices not the materials (possibly except massive applications like conductors to replace copper). The <sup>the</sup> scale suggested is just for mini-mem' first entry, not for any real exploration.

Shouldn't you consider a technical joint venture with a company that lacks the chemistry but is already sophisticated in electronics

(\* or acquisition of)

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TO:

(and electro-optical etc.) devices? I don't know about this technology, but Schlumberger has the kind of drive that would be appealing for a joint venture.

2) Several references to agar (agar were partly compressed).

a) Agar production might be amenable to genetic engineering.

b) Agar is a useful natural polymer which enjoys a \$10 MM market at retail (at > \$10/lb). Could a synthetic or biosynthesized substitute be devised that would relieve dependence on Japanese (see weed) monopoly.

[Redacted signature box]

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TO:

3) I do applaud the biotechnology program R+D. Can crucial decisions now be made about next stages of implementation?

Still more (and more sophisticated) investment will be warranted for incremental improvement of the nuclease process if a large scale production effort is present.

4) May I echo, with amplification, the idea of focussing on Calanese' own applications for large scale production of its filament technologies for chemical separation, e.g. of microbial fermentation products. If reverse osmosis is cost saving for distilling water, why not for EtOH, organic acids etc.

[Redacted signature box]

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