

ADVANCED DIAMOND TECHNOLOGIES, INC. UNCD™-Industrial Products in World Market

UNCD®-coated pump seals
(20% operate energy cost savin)
Market: U\$S 500 millions

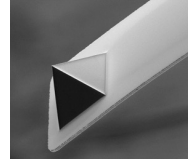


UNCD® - coated bearings
for Pharmaceutical Drug Mixers
Market: U\$S 1.5 billion

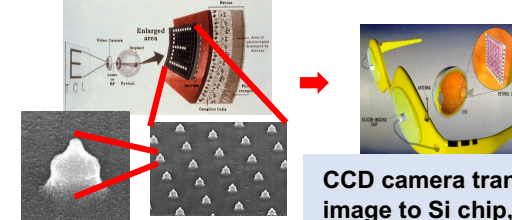


Merck Millipore Nova Mixer
with UNCD-coated bearing
(Catalog #C10728)

UNCD NaDia AFM Probes®
Market: U\$S 150 million



R&D done at → Argonne NATIONAL LABORATORY (2000-2010)
directed by Auciello, developed UNCD-coated Si chip implantable in human eye to restore partial vision to blind people

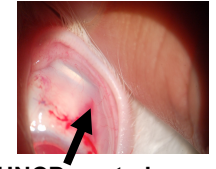


Electrically conductive N-UNCD™ tips/corrosion resistant electrode array
CCD camera transmit image to Si chip, which send electrons to brain to form images

Revolutionary new retina reattachment
(3 patients recovered full vision
In clinical trials in Argentina)



Super-paramagnetic Nanoparticles injected in eye attracted by magnetic field push Retina back to eye

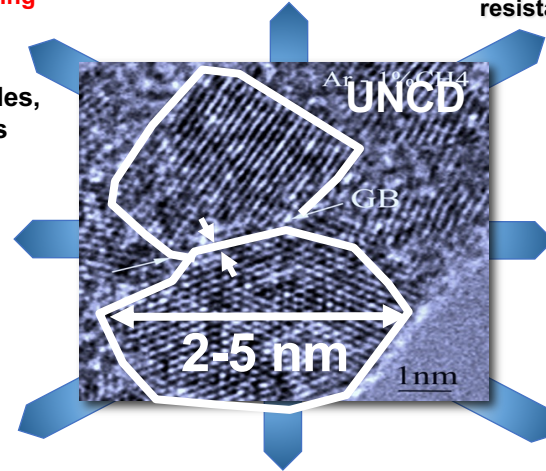
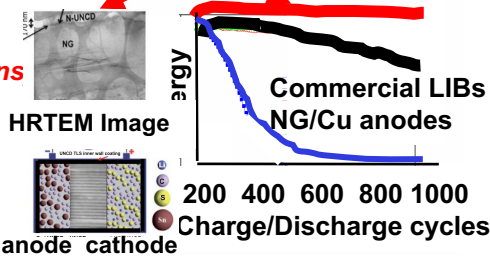


UNCD-coated magnet temporarily outside eye produces magnetic field

Novel Li-ion battery with electrical N-UNCD-coated anodes,
≥10x longer capacity energy life / safer than current LIBs

N-UNCD-coated NG/Cu anode

(Market ~ U\$S 50 billions)



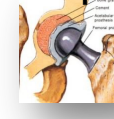
UNCD-coated metal prostheses (*Markets: ~ U\$S 10-20 billions*)

Dental implant



Implanted - 50 people
(2018-present)-México
to market in 2024-25

hip



knee



Under development

stent

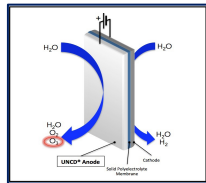


heart valves



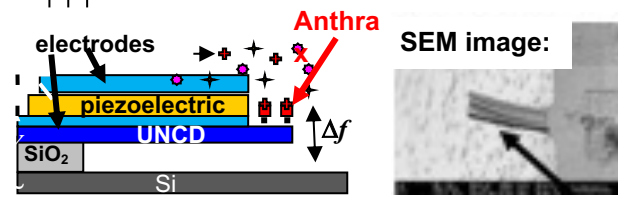
Electrolysis Water purification system
with conductive/corrosion resistant
B-doped B-UNCD-coated metal electrodes
(Market ~ U\$S 80 billions)

DIAMOND

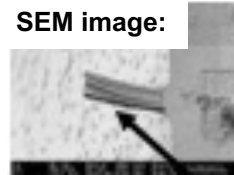


Ozone kills viruses, bacteria, fungi, mold, pathogens, protozoa, cysts, algae, yeasts.

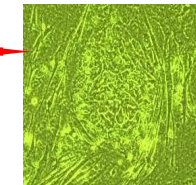
hybrid piezoelectric/UNCD biosensor



piezo/UNCD MEMS cantilever



Embryonic stem cells grown on UNCD surface
differentiated to →



photoreceptors

