

**NANO-CONVERSION
TECHNOLOGY
AND
BUSINESS**

EXAMPLES OF APPLICATIONS OF NANO-INDIS™

- Using proper pairs of activators and nano indicators, it is possible to monitor a variety of materials and processes including:
 - Time (self expiring visitor's badges, employee IDs)
 - Temperature (microwave doneness)
 - Time-temperature (monitoring shelf life of perishables)
 - Freeze (fresh blood, produce, some vaccines)
 - Thaw/defrost (frozen foods)
 - Humidity (pharmaceuticals)

EXAMPLES OF APPLICATIONS OF NANO-INDIS™

- Sterilization (monitoring sterilization of medical supplies and perishables)
 - Steam
 - Ethylene oxide
 - Plasma/hydrogen peroxide
 - Radiation
- Toxic chemicals, e.g., chlorine & ethylene oxide
- Electronic devices
 - RFIDs
 - **EAS: Electronic article surveillance**
 - **Circuit boards**

A TECHNOLOGICAL GAP

There was a need and no indicator/monitor technology was available which:

- Is 100% irreversible, self reading and idiot proof
- Provides unlimited colors and messages
- Provides a long induction period with two messages of the go and no-go type
- Provides the same colors and self reading messages for a number of materials and processes, i.e., universalizing the indicator technology
- **Is highly accurate**

A TECHNOLOGICAL GAP

- Uses non-toxic materials
- Is machine and remotely readable
- Is very economical
- Is suitable for an individual unit as well as for a container of units
- Can be used for monitoring a large number of materials/agents and processes

This giant gap is filled with nano materials.

Nano-Indis have these and many other desired properties and fills that technological gap

POTENTIAL SIZE OF NANO-CONVERSION TECHNOLOGY

- The above are examples of one set of products (indicators) that are developed using just one nanostructure (nano-film) of only one metal/aluminum
- The potential worldwide market for a few of these Nano-Indis alone can be in billions of dollars per year
- There are a large number of other nanostructures made from a large number of other materials
- **One can imagine products that can be developed by destruction of such materials**

THE TECHNOLOGY/BUSINESS

- One source for almost all indicators: Time, time-temperature, temperature, freeze, thaw, pressure, radiation, microwave, oxygen, humidity, ionizing radiation, sterilization (almost all types and all classes) and toxic chemicals can be made and supplied by one company
- One indicating material: Metallized plastic film or metallized ink type of materials for all devices
- Manufacturing: Mainly only one type of equipment are required for making the devices; simple coating and lamination

NANO-INDIS™

**A REVOLUTION IN
INDICATOR TECHNOLOGY**

**ALL INDICATORS FROM ONE
TECHNOLOGY AND SOURCE**

NANO-CONVERSION TECHNOLOGY

AN IGNORED BUT NOVEL AND
UNIQUE FIELD OF NANOSCIENCE

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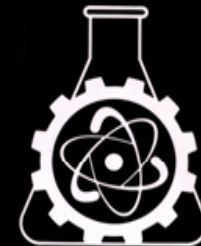
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Nano-Conversion
Technology