Applications are invited for
10th NATIONAL AWARDS
for Technology Innovation in Petrochemicals & Downstream Plastics Processing Industry

Government of India, Department of Chemicals & Petrochemicals has announced in April 2007 an Award scheme to incentivize meritorious innovations and inventions in the field of Polymeric Materials, Products Processes and other area of national and social importance. The polymeric applications has already penetrated in all walks of life including various manufacturing sectors for conservation of natural resources and energy efficiency etc. This innovation award scheme will motivate the inventors to carry out innovative Research & Development in the areas of petrochemicals industry, which in turn will improve performance / quality of the existing product. The department is implementing the scheme thru’ CIPET and consequently awarded Nine National Awards. Online/offline application for 10th National Awards are invited from Individual, Team/Micro/Small/Medium/Large Scale Industry, Academic, R&D Institutions etc.

Category of Awards

1. Innovation in Polymeric Materials
   New Polymers, Blends & Alloys, filled materials, fibers, Polymer Composites and Nano-Composites, Smart Materials etc., New Additives, Compounds for newer & special applications in defence & space, Non-conventional application/replacement of conventional materials (e.g. Metal & Ceramics etc.), Materials for Additive Manufacturing Technologies

2. Innovation in Polymeric Products
   New/creative product design, Non-conventional application / Replacement of conventional materials (eg. Metals, Ceramics etc.), Modification of product design for performance improvements, Application in defence & space, Enhancement in the working environment, life cycle, energy efficiency, recyclability etc.

3. Innovation in Polymer Processing Machinery, Equipments, Robotics & Automation
   Development of innovative/eco-friendly processing techniques, Modification of machinery for higher Efficiency / Productivity / Automation, Energy conservation, product quality improvement, Improvement & design of moulds, dies and auxiliary equipments, Development and Application of Robotics & Automation in different polymer processing techniques, Development in material movement system, Improvement in moulding & post-moulding operations, Development of low cost, energy efficient, polymer testing equipments, Modification of Single Use Plastics (SUP) Machinery for alternative use

4. Innovation in Polymer Waste Management
   Newer technology in plastic waste utilization into products/energy recovery, Recycling Technology, Plastic waste collection, segregation techniques, Product design for improved recyclability

5. Innovation in Green Polymeric Materials & Products
   Biopolymers, Biodegradable / compostable Polymers, Time controlled degradation, Green material filled polymers, Biodegradability evaluation techniques

6. Innovation in Packaging Techniques including creative Design
   Emerging Packaging Technologies, Smart Packaging, New compound for replacement of multi-layered packages, Packaging for defence, Creative design for improved recyclability, Packaging for improved shelf life, Consumer convenience, Stability on shelves for easy storage

7. Polymers in Agriculture and Water Conservation
   Water transportation, mulching, canal lining, drip irrigation, sprinkler system, low tunnels, poly house etc., Controlled release system for fertilizers, pesticides, micronutrients, etc. Innovative packaging for agriculture, floriculture and horticultural produce, Controlled permeability films & packaging for improved shelf life, Novel Usage of plastics for food security, Drinking water storage & transportation, Polymer membrane for water purification/Desalination, Devices for waste water, drainage, sewage treatment system

8. Polymers in Medical and Pharmaceutical Applications
   Affordable/cost effective implants, implements and devices, New innovative products for medical application, Polymer based new drugs delivery system, Polymer body implants, Innovation in PPE products, Innovation in ventilator, sanitizer etc.

9. Innovation in Petrochemicals and Newer Polymer Applications
   Sustainable substitutes for chemical intermediates of fossil origin, Innovation in Crackers, Catalyst Complexes for better yield, Biodiesel, Clean products targeting circular economy, Energy Efficient Technologies for Upstream Petrochemical Industries, Materials for Energy Storage & Conversion, Innovation in Coatings for Oil & Gas pipelines

10. Research in the field of Polymer Science & Technology
    This Category is for Research Students of Academic Institute / Research lab.: Individual / Team of researchers in R & D Institutions & laboratories, Original research work in polymeric material processing etc., leading to prototype development & future industrial applications

11. Innovative “Start-up” venture in Polymer field
    New start-up polymer industry for market needs, export oriented units, units related to waste management and recycling producing innovative product, import substitute in additives etc., “Start-up” with indigenous technologies, Eco-friendly, cost effective product solution to improve life standards

12. Best Employer in Petrochemical Sector
    This Category is for R&D units/Manufacturing Industries with 3 consecutive years in operation & 20+ employees in role: Employs qualified person from main stream/core subject, Maintains low /no attrition rate, Treat employees fairly, responsive/respected and pays attention to employees well being, personal growth & develop professionally, Encourage creativity and provide opportunities to try & learn new things, Great work balance, benefits, compensation, autonomy, positive attitude and supportive & collaborative working atmosphere, Strong leadership and transparent/direct/effective/timely communication

Online / Offline Application should reach us on or before
31st August/2020

ORGANIZED BY: POLYMER DATA SERVICES (PDS), CENTRAL INSTITUTE OF PLASTICS ENGINEERING & TECHNOLOGY (CIPET)
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