

EZPeel: A Revolutionary Steel Food Can Closure System

Michael Vaughn, Vice President, Packaging Innovation Ball Corporation
(M01)

Ball Corporation's EZPeel is a new multi-layer film closure system for steel food cans. Ball developed this innovation using its proprietary process for joining plastic and metal. EZPeel is designed to improve ease of use, convenience and safety for consumers; the ends incorporate an easy-to-grasp, flexible pull tab, and Ball's joining technology, eliminates the sharp edges of traditional food can closure systems. Ball also designed to product so that it can be manufactured, processed and transported using existing equipment and infrastructure. This presentation will address specific package attributes, technology, performance and consumer appeal measured through proprietary research.

CCMA: The Innovation of New Product Development

Michael Mooney, Director, Design Engineering, Constar International
(M02)

Innovation and Speed: Historically, new product development has been one of creation rather than innovation, but true innovation requires a change to this approach. Creating new products that are better performing, lower cost and aesthetically pleasing, all in the quickest possible timelines are a few of the challenges we face today. The key to developing the best new products in the shortest timeframes lie in the process itself. Reviewed is an overview of the emerging field of Advanced Predictive Engineering and its influence on the process of product lifecycle management with sophisticated analysis, modeling and programming techniques.

CCMA- Pouring Into the Future: Integrated Dispensing & Pour Features for Plastic Bottles

Michael E. Penny, Principal Engineer & Inventor, Amcor PET Packaging, North America
(M03)

Most pour feature applications on plastic bottles require the assembly of a secondary component that provides flow or dispensing control. These separately attached features can also provide drain back and "drip-less" capabilities as well. With sustainability initiatives at the forefront of bottle design, innovations are needed to combine these separate pour features into the bottle design so that the bottle and pour feature become one vs. two separately molded and subsequently attached components. Amcor has developed several 1 piece pour spout bottle designs. Several of these improve the pouring and dispensing capabilities of given powders and liquids, while another highly innovative concept, actually provides drain back and "drip-less" capabilities as well. These new innovative designs mean that only one polymer is used and require no special segregation during reclaim and recycling. This capability makes them highly attractive for use in our sustainability focused World of today.

CCMA – Key Industry Trends & Innovation

Raj Krishna, Chief Technology Officer, Rexam;
Bryan Wesselmann, Director, Global Sales & Marketing , Rexam
(M04)

Rexam unveils its latest thinking around key industry trends and innovations.

- How Rexam's understanding of trends affecting consumer values, attitudes and behavior, impacts packaging innovation now and in the future.
- Rexam's approach and insight techniques to understanding how consumers interact with products in their environment
- How Rexam's market focused New Product innovation process supports the development of the latest innovative products
- The value this creates for our customers

“Our worldwide success rests upon the success of our customers and we accomplish this through continual innovation and the anticipation and understanding of consumer trends,” comments Divisional MD Robert Brands. “As a result, Rexam’s packaging solutions communicate quality, reliability, precision and creativity.

Pouch Packaging 2018: What’s Next?

Charles Murray, Chairman/CEO,
PPI Technologies

(M05)

Fantastic forecast or anticipated future? This presentation envisions a coming decade in which flexible pouches are fitted with embedded RF chips in the bodies, spouts or zippers to track and verify pouch production, distribution and sale... production lines remotely controlled by robots 24/7 and monitored by real time data acquisition systems... filling lines receiving quality inspected empty pouches, digitally printing and coding them, filling them and checking seal efficacy via X-ray scans.

Packaging Operational Efficiencies Depend Upon Bridging the Mechatronics Skills Gap

Steve Berkos, Sr. Plant Controls Engineer, Unilever; James B. Higley, P.E., Professor, Purdue University Calumet

(M06)

In an economic environment that mandates unlocking additional profitability, automated packaging operations hold great potential. One key is mechatronic machinery, which is designed to increase efficiency and flexibility.

The other key is a workforce of mechatronically skilled engineers and technicians. Unfortunately, the U.S. education system has not kept pace with these new developments. Until now.

What impact can these skill sets have on your packaging operations? Unilever’s Steven Berkos explains how new hires can come up to speed fast with far less on the job training, plus the ability to reduce operational costs, enable sustainable packaging, and introduce new products to market faster .

Professor James Higley, Purdue University Calumet (Hammond, Indiana), will demonstrate how the first mechatronics engineering technology program specifically targeting packaging systems is bridging the gap.

Working with packaging machinery builders and automation suppliers, the faculty there intends to bring benefits that European manufacturers have enjoyed for a number of years to the U.S. packaging community. The course of study combines elements of the school’s computer science, electrical and mechanical engineering technology programs and features a laboratory equipped with the latest automation technologies.

Advanced Aseptic Processing: The Next Step in the Evolution of Aseptic Pharmaceutical Production

Dr. Jim Akers, President, Akers Kennedy & Associates, Inc.

(M07)

Advanced aseptic processing can be defined as the complete elimination of risk resulting from direct human intervention in aseptic processing. Risk from human released contamination is agreed to be the only significant source of microbial contamination in aseptic processing. It follows then that people are the greatest risk to sterility assurance and hence product safety. There are effectively two ways by which risks from human operators can be managed. The first of those ways is through full separation of people from the critical area in which product is filled and assembled. This requires changing the human-process interface so that any manipulations required are done using isolators with built in gloves and sleeves rather than by direct interventions such as those required in conventional cleanrooms. The other approach to eliminating risk from human borne contamination is to fully automate manufacturing so that human interventions are not required. It seems that given the trajectory of technological development the future lies in full automation rather than separation, although separative

technologies will continue to be valuable for some years to come. Other clean technologies such as microelectronics manufacturing eliminated direct human interventions in their processes nearly two decades ago.

Packaging Execution Systems (PES): An Absolute Necessity

Joe Ringwood, COO, Systech International

(M08)

The adoption of Lean Principles has spread beyond the discrete industries and is rapidly permeating the pharmaceutical industry. Specifically, a large emphasis is being placed on the efficiency of packaging operations in the pharmaceutical industry. Manufacturers must turn to packaging execution system (PES) architectures that focus specifically on packaging operations. PES seamlessly integrate critical packaging line information functions: inspection, line management, serialization, performance measurement and ERP connectivity. There is data generated by packaging operations that goes nowhere. Companies may be adding new systems to generate and manage that data and PES allows management to use that information to improve operations.

Note: This discussion will be non-vendor specific. It will be an educational session that emphasizes the business and technical aspects of PES that is tailored to the expertise of attendees. Systech will stress how important it is for manufacturers to have a sustainable infrastructure in place to optimize packaging operations.

Variable Frequency Metal Detection Technology

Martin Lymn, Director, Major Accounts, Loma Systems;

Hermann Fleps, Technical Director, Loma Systems

(M09)

As food safety, due diligence and HACCP considerations drive continued interest in metal detectors for the food industry – exemplified in WalMart’s adoption of a global food safety standard, it’s no secret that the underlying technology of metal detection is somewhat mature, common across all manufacturers and gaining from only incremental improvements as new models are introduced. In 2007 however, this cozy world was turned upside down by the introduction of “variable frequency” metal detectors – arguably the single most important development in this industry in 30 years and representing the ‘holy grail’ in metal detection.

So what is ‘variable frequency’ and how does it really impact my operation, or does it?

Conservation - The First Step to Sustainability

Bill Petersen, General Mgr., Sales and Applications Development,

Iconotech

(M10)

The conservation of raw materials leads directly to sustainability by reducing what you need and what you discard. It also sends cost savings straight to the bottom line. Avomex, the largest producer of guacamole in the United States, reaped these benefits when they switched from pre-print to a generic case printing program. By substantially reducing inventory, shipping expense, material scrap, and case obsolescence, they have dramatically reduced operating costs. Using Avomex as a case study, this presentation details the environmental and financial savings they have experienced in the first year of operating a generic case printing program for their secondary package marking.

The Road to Zero Landfill Waste

Myles Cohen,

Vice President and General Mgr., Recycling Division,

Sonoco

(M11)

Last year, Cohen led a Sonoco Recycling team in creating a sustainability consulting service, Sonoco Sustainability Solutions (S3), which has successfully helped consumer product goods

companies turn their waste into new sources of revenue, while helping them improve environmental sustainability efforts by reducing landfill waste. Cohen will provide real-world case studies, explaining how the four-step S3 process has revolutionized how manufacturers, retailers and distributors view waste materials, helping them turn waste streams into revenue streams.

Sonoco Recycling, a division of the global packaging company Sonoco, is one of the world's largest recyclers, collecting approximately 3.5 million tons of materials annually

A Brilliant Partnership: Color, Energy & Material

Linda Carroll,
Market Development Manager,
Ampacet

(M12)

Ampacet views the sustainable packaging challenge as an opportunity to create brilliant packaging solutions. Of the thousands of packages on the shelves, what are the cues that prompt the buyer to select one package over another?

Reach your target audience by understanding how socio-economic conditions influence consumers' preferences for color, design and sustainability. Ampacet offers plastic packaging designers and manufacturers the solutions they need to develop truly brilliant sustainable packaging -- less material usage, lower energy needs, more efficient production and greatest package appeal.

Sustainability: What Brandowners Expect from their Packaging Suppliers

Tom Taber, Vice President,
Strategex Inc.

(M13)

The focus on sustainability continues to rise. Customers are now looking to the packaging supplier for sustainable solutions like never before. What are their expectations and how can a supplier meet their needs?

Using findings from over one hundred and fifty interviews conducted globally with packaging decision makers in leading beverage, food, personal care and healthcare companies; learn directly from the voice of the customer what they are asking for.

Key Learning Points:

- What are the brand owners's current pain-points regarding sustainability?
- How do they vary by geography and industry?
- What is driving their sustainability agenda and how can an in-tune supplier support their efforts?
- What are desired capabilities needed to become a true partner in a customer's sustainability pursuits

OEM Perspectives on Innovation & Sustainability

Mike Wagner, Global Segment Business Mgr., Rockwell Automation; Darren Elliott, Global Technical Resources Mgr., Rockwell Automation

(M14)

The presentation will examine three perspectives on the influence of change, innovation, and sustainability for OEMs in the Packaging industry. Core themes such as understanding market trends, competitive/customer pressures, and continuous improvement initiatives provide continual challenges for the packaging OEMs as a whole. Real world OEM examples will be given to illustrate what some are doing to succeed in managing change, innovation, and sustainability in today's market.

Packaging HACCP - Food Companies' New Expectations for the Packaging Supply Chain

Wynn Wiksell, Manager, Pkg. Quality & Regulatory Ops, General Mills and Chairman,
Food Safety Alliance for Packaging

(M15)

Food Safety had always been at the forefront of Brand Owners and Ingredient Suppliers' minds. The Food Safety Alliance for Packaging Materials was formed by many of the biggest Food CPG's in the world with one mission in mind: To educate Packaging Suppliers on the effects of Food Safety and to give them resources on how to protect themselves and the consumer from the potential consequences of a Food Safety issue. Many known case studies and brand ties are shown to bring up the awareness. Great references are available on presenter and materials. High energy presentation.

The Economics of Deploying State-of-the-Art Contaminant Detection—Spend a Little, Save a Lot

Bob Ries, Product Manager, Metal and X-ray Detection, Thermo Fisher Scientific

(M16)

Overview: Justifying capital investment in food safety and inspection technology can be difficult. The costs are clear, but the benefits are a challenge to monetize. In today's financial climate, food producers are looking for payback in two years or less.

This paper will review the common contaminants detected by metal detectors and X-ray systems, providing insight into possible sources of contaminants. The two technologies and investment levels will be compared. Sample prices and estimates for Total Cost of Ownership (TOC) will be presented, along with real- and opportunity-cost estimates. Payback illustrations will include costs for re-screening, rework, scrap and returns. Examples will demonstrate the negative PR and legal action that results when a contaminant gets to the market. Finally, 2008 U.S. tax ramifications will be explored and a sample payback spreadsheet will be distributed.

Anti-Counterfeit Packaging Strategy: Aligning Actions with the Type of Counterfeiters and Counterfeiting

John Spink, Director, Michigan State University - Food Safety Center

(M17)

The brand owners are asking about the overall strategy not behind the package components but behind the counterfeiting and the counterfeiters.

Beyond the concepts of "counterfeit-evident" and "counterfeit-resistant" strategies, the presentation expands beyond the packaging technology expertise to leverage MSU Faculty expert insight in tangent areas and focuses on the results from the Packaging for Food and Product Protection (P-FAPP) Initiative.

Content will include a "Type of Counterfeiters" and a "Motivations for Counterfeiting" matrix, which are correlated with criminal justice concepts such as "the crime triangle" and "situational crime prevention."

Specifically, RFID is analyzed as an anti-counterfeit measure.

IP Issues with Packaging

Eduardo Carreras, Partner

Woodcock Washburn LLP;

Harold Fullmer, Partner, Woodcock Washburn LLP

(M18)

Innovation is the process of technical improvement, and intellectual property is the product of innovation. Many companies use intellectual property not only defensively to protect others from copying, but in more sophisticated ways to further their business goals. As explained in this presentation, an IP strategy is a set of goals for the acquisition, protection, leveraging and management of a company's IP, and a plan to implement those goals. A discussion of IP strategy for packaging companies will be based on Ed's experience as the (former) chief IP counsel for the Coca-Cola Company and Hal's IP experience representing packaging companies.

Unit Serialization in Production

William Fricks, Manager of Software Services, Barry-Wehmiller Design Group, Inc.

(M19)

The need for serialization at the unit, case and pallet levels is growing due to new state regulatory mandates and trading partner requirements. Unit serialization using RFID and/or 2D barcodes presents unique challenges for packaging line automation. Learn about the capabilities, advantages and disadvantages of ID technology at each serialization step from labeling to palletizing. In addition, a typical IT architecture to meet on-site and above-site serialization control and reporting will be offered. Estimated costs to implement unit serialization on a regulated line will be discussed.

“Enhancing Your Anti-Counterfeiting Arsenal”

Jim Colby, Global Packaging Manager, Ink Supplies Business, Hewlett-Packard

(M20)

“When counterfeiters and the counterfeit industry is considered a ‘competitive threat’ businesses will then increase their focus and strategy to combat the impact to their product and customer base. Learn proven strategies to reduce counterfeiters’ share of your packaged goods market, including the use of overt and ‘high value’ digital marks.”

Developing the Packaging Workforce of the Future

Keith Campbell, Project Manager,
Industrial Maintenance Training Center of PA; Scott Sheely, Executive Director, Lancaster County
Workforce Investment Board; John DeVere, Dean of Workforce & Economic Development,
Reading Area Community College

(T01)

Availability of an adequately skilled workforce is a crucial issue for packagers in North America. When industry, government and education work together it is possible to up-skill existing employees and create a pipeline of new workers for the gold-collar jobs in the packaging industry. Members of this panel will describe their successes which have come about by developing partnerships between local employers, national associations, secondary and post-secondary educators, and state and federal agencies. Topics will include the use of packaging employment demographics, basic employability programs, mechatronics training, articulation of 2+2+2 educational curricula, youth programs and related topics.

RFID's Impact on Process, Partnerships and Profit

Robb Clarke,
Associate Professor,
MSU School of Packaging

(T02)

RFID tagging requirements affect many companies, worldwide. Whether you are a medical-, consumer product- or military-based company, current RFID trials and mandates will have an influence on your business operations and, by extension, your business decisions. This presentation will analyze how meeting a requirement impacts a business with respect to the additions to, or changes in, the process flow, strategic partnerships, and the net effect on profit.

Implementing a World Class Packaging Operation

Rick VanDyke, Group Manager of Transformation/Supply Chain,
Frito Lay; David Latimer, Technology Leader, Procter & Gamble; Damian Stahl, Managing
Partner, Polytron

(T03)

When implementing a World Class Packaging Operation users are faced with the following challenges:

- Obtaining the right packaging equipment from machine builders
- Integrating the pieces of the packaging operation together
- Interfacing with the IT/business systems

The user participants will briefly discuss these challenges and then open the floor for a roundtable discussion on the topic with questions from attendees.

Prove It! Does Your Training Make a Difference?

Nancy B. Cobb, President,
Partners in Possibilities; John Henry, President, Changeover.com

(T04)

Where the Holy Grail of measurement is ROI can we apply the same principles to training's cost benefit? We know we need to train; we know it often gets slighted; we know it's hard to sell to management so when and how will we begin to quantify the Value of Training

Keeping "blended learning" in mind, ROI and "Return on Expectations" will be discussed. Changeover case studies will illustrate how costs and benefits are identified and Internal rate of Return (IRR), Net Present Value (NPV) or Payback Analysis are applied to quantify the value of the investment. Sample worksheets will be provided.

Electrical Regulation Compliance for OEMs – What You Don't Know Might Shock (and Cost) You!

Mark Lewandowski, Technology Leader – Corporate Engineering, Procter & Gamble
Jim Reizner, Technology Section Head- Corporate Engineering, Procter & Gamble

(T05)

U.S. electrical regulations for equipment are complex. It has been our experience at Procter & Gamble that very few equipment manufacturers understand what is legally required for their equipment to be installed and used in the U.S. In this presentation we will discuss what is required from OEMs to ensure their equipment will meet the electrical regulations for the U.S.

Topics to be discussed in this presentation include:

- OSHA's requirements pertaining to "Nationally Recognized Testing Laboratory" (NRTL) certification of equipment systems
- When OSHA allows vendors to "self-certify" equipment systems
- Impact of local (State, County, Municipal) ordinances
- Standards typically used for NRTL / 3rd party certification
- A brief overview of what is required for U.S.-made equipment destined for the European Union

New Technologies for Lightweighting Polyolefins

Terry Glass, Technology Leader Rigid Packaging, Dow Chemical

(T06)

Polyolefin resin and fabrication technologies continue to move packaging applications to lighter weights while maintaining necessary functional performance. Efforts with resin design (higher modulus, better ESCR resistance) and foam technology is evolving quickly and yielding results to lightweight containers by 20% from where we were just 2 years ago. An overview of four different technologies will be presented. The technologies can be used to produce thermoformed and blow molded polyolefin based packaging

Transforming Waste into Resources

Lawrence Mucha, Vice President/Consultant, The ZDM Group LLC

(T07)

The paper will describe a statistical method for optimizing the performance of light weight PET preform designs. The two designs chosen will be an optimized design and a design which is used in production for other containers.

We will be comparing the blow molding performance of an optimized preform for blowing a container against using a non optimized preform from an inventory of existing designs – a common practice in our industry. We will evaluate the performance of the two resulting containers statistically to substantiate package performance differences. The result will highlight improved

performance through light weighting thus **minimizing packaging without compromising integrity.**

Tradeoffs in Sustainability in Wrapping

Katherine Putnam, President, Package Machinery Company Inc.

(T08)

When looking to create an attractive package through use of wrapping materials while weighing issues of sustainability, there are several factors to be considered: attractiveness of package, cost, energy consumption in the process, landfill usage, substitutability of alternatives (such as bundling for cardboard boxes, trays instead of boxes).

We will evaluate the tradeoffs in energy consumption, film alternatives and flexibility in creating a package that is

- attractive to the consumer,
- reduces landfill usage through the evaluation the trade-off in volume, packaging substitution
- energy consumption in the process,
- films choices between polyethylene, polypropylene and natural based substitutes.

Achieving Sustainability through Adhesive Dispensing Technology

Rick Pallante, Marketing Development Manager – Packaging, Nordson Corporation

(T09)

Manufacturers and suppliers are discovering that the unlimited use of adhesives materials in packaging is no longer an option. With mounting cost pressures and environmental concerns, finding new ways to effectively apply adhesives – with minimal impact on processes and the bottom line – is an industry-wide imperative.

This presentation will discuss a number of new approaches to the application of adhesives in packaging. It will explore trends in substrates and adhesives, application methods that can substantially reduce adhesives use and recent advancements, from EVA to Metallocene-based solutions. In addition, the presentation will address the use of recycled paperboard in packaging. Note: We are working on securing a third party to present with us. If that is not possible, will present a case study where we talk about the application without disclosing the customer name.

Minimizing Packaging without Compromising Integrity

Tom Blanck, Manager,

Adalis Corp.

(T10)

Effective packaging plays a critical role in reducing impact on the environment. Appropriate packaging design, material use and latest value-added technologies can significantly impact energy consumption, transportation and storage costs, packaging waste and product shelf-life. Adalis will discuss how latest solutions such as display-ready, easy-opening and packaging reinforcement features can result in increased packaging sustainability, performance and cost reduction, as well as a renewed competitive edge in the marketplace.

In-Process Product Traceability: From Concept to Reality

Tim Reardon, Industry Marketing Manager, Key Technology, Inc.

(T11)

Surface Pasteurization of Particulate Foods – Controlling Moisture and Quality

Rainer Perren, Managing Director,

RPN Food Technology

(T12)

Sustainability for Food Plants: From Concept to Operation

Jason Duff, Vice President of Design, Stellar, TLC

(T13)

Increase Profits by Aligning Your Assets

Richard Henry, Vice President,
The Advance Team

(T14)

What if your existing production machinery were operating at optimized efficiency? That would mean that you would have a minimum of scrap, exceptional quality, higher line speeds, reduced maintenance costs, no capital investment, and ultimately higher profits. Many companies are realizing the benefits of aligning their assets. How about you?

Over-treatment of PET - Fact or Fiction Part 1: A Study of Web Density, Corona Swell Time, Film Selection, Dyne Level and Water Soak Bond Strength

Jessica Bodine, Technical Sales Representative,
MICA Corporation

(T15)

Which the treatment level no longer contributes beneficial properties to the film surface and may begin to cause degradation of the surface. But how does the converter know when this point has been reached? Is testing the dyne level a true measure? What variables effect over-treatment? A study was designed to look at dyne level of the corona treated film versus bond performance in a simulated extrusion coating process to measure over-treatment. Bond failure analysis and water soak data were collected. The effects of film selection, watt density and dwell time (number of bars) were studied.

The Hole in RFID: Preventing Pharmaceutical Supply Chain Loss

Andrew Strauch, VP Product Marketing & Management, MIKOH Corporation

(T16)

According to the U.S. Chamber of Commerce, the pharmaceutical industry loses \$32 billion annually to counterfeiting. While RFID is promising, a hole must be addressed – physical security. Readers detect the tag – not the product. As a result, RFID can disguise theft and counterfeiting.

- RFID tags can be moved without affecting the RFID function.
- Nothing prevents removing RFID tags and placing them on counterfeit items.
- It's easy to remove RFID tags and leave them in the empty carton.

This session addresses the physical security hole by outlining application possibilities of tamper-evident RFID technologies in the pharmaceutical supply chain.

Packaging Production Waste & Rework – A Gold Mine

Paul Zepf, Director of Engineering, Zarpac Inc.

(T17)

Today as many packagers are being squeezed by price ceilings and increasing costs of materials in tight markets or limited growth markets, the hunt is on for savings. Fortunately, a savings far greater than any labor can give, is in front of most packagers. What is this? Why have packagers not heard about this? It fits nicely into Walmart's sustainability guidelines for production facilities. It is still the greatest untapped cost savings around, but why have companies not made this area a priority? Why are a lot of companies' average percent waste and rework greater than 10% and sometimes greater than 20%? How come North American high tech packaging companies have such high waste and rework? Are packaging companies flushing money down the drain? How come no data on waste and rework exist within the public forum or even internally? Some of the answers might be nice to hear, but what is more important is to come and see how your operation can yield up easy money. All you have to do is go out there and pick it up.

Designing Rigid Shelf Stable Barrier Packaging

Gregory Dixon, Director of Engineering, Spartech Corporation
(T18)

This presentation will be helpful for those attendees interested in entering the rigid barrier packaging market. Shelf stable packages with two years of shelf life are very common and attainable with today's barrier technology. The presentation will cover the basic manufacturing processes available including preformed containers and form-fill and seal. Discussions will also center on material selection including the barriers EVOH and Saran.

Designing Sustainable Transport Packaging . . . Then Managing It

Chris Grimes, Product Development Manager, Rehrig Pacific Company
(T19)

Rigid-plastic transport packaging – it is truly one of the most sustainable packages many industries will use. It can prove to be very beneficial to many different areas of a company as long as it is designed with all of those areas in mind. From the packaging machine, to the stretch wrapper to the delivery truck, all aspects of the company need to be considered for sustainable packaging to succeed in cutting waste and costs.

In addition, to reuse transport packaging properly, you have to manage it. What are the best practices for this? How are companies accomplishing this?

Leveraging the Findings of a Corrugated Life Cycle Assessment

John Heckman, Vice President, Five Winds International
Dwight Schmidt, President, Fibre Box Association
(T20)

Findings of the first US corrugated industry Life Cycle Assessment (LCA) will be presented by The Corrugated Packaging Alliance (CPA), which commissioned the LCA, and Five Winds International, which conducted it in accordance with ISO 14040 series standards for LCAs. The scope of the study covers a "cradle-to-grave" life cycle assessment which includes natural resources acquisition, manufacturing, conversion to a final product, use and end of life disposition. The assessment extends into the life cycle impact assessment and interpretation phases of the LCA in accordance with ISO 14044.

The presentation will include plans for using the results of the LCA to chart a path towards continual improvement for the industry as well as populating the US LCI Database and MERGE tools.

Folding Cartons – Rethink Your Workflow and Drive More Profits

Mike Pfaff, Folding Carton Manager,
Mark Andy Inc.; Wally Nard, President, Novaflex Inc
(W01)

Flexible Packaging – It's Not Just for Wide Web Anymore

Jerry Henson, Flexible Packaging Manager, Mark Andy Inc.; Giancarlo Caimmi, Vice President, Nordmeccanica Group
(W02)

Trends and Opportunities for Labels and other Package Decorations

Steve Schulte, National Sales Director, Mark Andy Inc.; Tom Polischuk, Editor-in-Chief, Package Printing Magazine
(W03)

FDA and Sustainable Food Printing & Packaging Implications with UV/EB Curing Part 1

Mickey Fortune, Vice President,
RADTECH
(W04)

Food Contact Notification 772 provides FDA clearance for a group of acrylate monomers, an epoxy oligomer and Esacure One photoinitiator. The session will provide details on the identity of the cleared food contact materials, intended conditions of use, formulating latitude, migration limitations and outlook for expanded the use of UV/EB materials in food packaging.

FDA and Sustainable Food Printing & Packaging Implications with UV/EB Curing Part 2

Mickey Fortune, Vice President,
RADTECH

(W05)

Food Contact Notification 772 provides FDA clearance for a group of acrylate monomers, an epoxy oligomer and Esacure One photoinitiator. The session will provide details on the identity of the cleared food contact materials, intended conditions of use, formulating latitude, migration limitations and outlook for expanded the use of UV/EB materials in food packaging.

Compliance Considerations in Marking and Coding

Chuck Ravetto, Director of Small Character Marking, Videojet Technologies Inc.

(W06)

Regulations related to variable data coding of packaging come from many sources for product manufacturers. For example, customers demand human- and machine-readable codes for inventory; non-compliance means products are refused. Crisp codes also facilitate an effective track-and-trace infrastructure, a regulation for many federal government agencies, non-compliance risks fines and other action. Product manufacturers must also address U.S. and European environmental regulations. The proposed presentation will delve into the most crucial coding regulations and technological advances that facilitate compliance, like more sustainable ink jet printer inks that help meet environmental regulations, and unique product identifiers that contribute to government track-and-trace compliance.

Sustainability - Reframing the Responsibility

Peter Nelson Fox, Director of Sales, Delkor Systems, Inc.

(W07)

Enabling & Deploying Operational Performance

Rob Aleksa, Section Head, Procter & Gamble

(W08)

At Procter & Gamble, pressures for lower total cost of ownership and higher volumes are driving the demand for higher manufacturing capability. Machines that enable lower MTBF and MTTR as well as higher speeds and production coordination, are critical in optimizing output. In addition, resources continue to be stretched worldwide. The OMAC PackML and Make2Pack efforts help to provide consistency across machines to reduce the effort to deploy and technically support the range of machines globally purchased by P&G and drives machine-to-machine operational and technical consistency. Our company has embraced this impending standard through incorporation into business technical masterplans, training, internal positioning, and OEM specifications.

Unleash the Power of Data Collection

Ronald Iannacone, President,
Factory Intelligence Network

(W09)

The ability to monitor packaging lines in real time is a vital tool for plant managers to reduce unscheduled downtime and improve plant productivity. But having access to real-time data is only part of the solution.

With several real world examples straight from the factory floors, the presentation will demonstrate how long-term data collection provides the real key to diagnosing packaging and production issues, improving quality, and increasing productivity.

The presentation will review the major data collection technologies, and the benefits of factory intelligence to predictive maintenance, improving line productivity, operator training, and product quality.

FIRST 4.0: Flexographic Image Reproduction Specifications and Tolerances

Mary Sullivan, Director of Global Marketing, Mark Andy Inc.

(W10)

The RadTech Sustainability Task Force will report on recent quantitative analyses of radiation curing case studies which confirm that UV and EB curing are capable of substantial reductions in energy demand, fossil fuel usage and greenhouse gas emissions, as well as reduced transportation costs and emissions compared to conventional heat-set technologies. The Task

Force is working with industry, academic and government partners on projects to develop additional data on the sustainability characteristics of ultraviolet and electron beam curing. The results will be used to expand life-cycle analyses, and to develop a practical working model for technology comparisons.

Making a Case for Reduced Format Transit Packaging

Ralph L. Dillon, Managing Director,

Compliance Surety Associates;

Joseph Noferi, Director, Compliance Surety Associates

(W11)

Pharmaceutical packaging is the link to the end user that allows for the right medicine to be taken by the right patient at the right time. In designing a pharmaceutical &/ or medical package, there is a plethora of regulations and mandates that vary from country to country AND must be met.... But the underlying goal of all these regulations is to provide the patient a simple clean effective product that they can consistently use properly.

Tracking & tracing product tells where product has been. Tracking & trace with inspection to assure packages tamper evidence is not disrupted gives a high level of confidence the product is still safe and effective.

This session focuses on the often overlooked common sense aspects of tamper evidence packaging that should be part of any authentication initiative.

Examples of news worthy issues that may have been prevented though improved tamper evidence will be explored.

Any problems with drugs create adverse publicity ..even if the packaging group is not at fault The quiet heroes of the packaging industry are those who design products to never have a problem, rather than those who rescue their brand from an adverse event.

Success with any product means the interweaving of Anti-mixup, Anti- tampering and anti-counterfeiting technology with a well controlled supply chain.

High Density Foam as Alternative to Chemical Foam

Jonathan S. Cage, Director of Marketing—Packaging, Spartech Corporation

(W12)

High Density foam technology provides the catalyst to significantly reduce the weight on monolayer and or co-extruded rigid plastic packaging. Density reductions are achievable in the range of 50% in a monolayer structure and 35% in an ABA co-extrusion, with minimal compromise to structural integrity due to uniform high density cell size and shape.

The key benefits of high density foam are reduced raw materials consumption, reduced waste disposal fees, energy consumption, improved sustainability of products and the reduced use of whiteners and/or pacifiers.

Creating a Better Tomorrow Than Today

Jay Gehring, Vice President, R&D Packaging, Frito-Lay

(W13)

Frito-Lay is taking dramatic steps to reduce its environmental footprint. The company is making significant progress in the reduction of energy, water and packaging use.. Frito-Lay recently began operating a solar field at its Modesto manufacturing plant to generate enough power to produce all the Sunchips made at that site. Frito-Lay is planning a "Net Zero" plant that will reduce electric, gas and water use 80-90%. PepsiCo, Frito-Lay's parent company is one of the largest purchasers of Renewable Energy Credits, promoting the development of alternative, renewable energy sources.

With dozens of initiatives underway, the company's packaging reduction program has measurably reduced usage over the last five years. Frito-Lay is now researching leading edge plant and packaging sustainability technologies for future applications. They are investigating the feasibility of developing renewably sourced, degradable high barrier packaging for their products

The United Kingdom's Packaging Sustainability Efforts

Richard Bull, Managing Director, Enercon Industries Ltd.; Ryan Schuelke, Sales Manager, Enercon Industries Ltd.

(W14)

With the support of the British Government packagers in the United Kingdom are taking a leadership position in sustainability with efforts to monitor and reduce pack weight and carbon footprint. Large Supermarkets such as Tesco are already actively labelling their products with carbon footprint data. Dairies in the UK have turned to induction sealing to improve sustainability. This year over 2 billion dairy containers and closures with induction seals will utilize less plastic effectively reducing their pack weight and carbon footprint. This paper will review current sustainability trends in the UK and their impact on global packaging strategies.

Drying Technology: Heat Transfer, Energy Optimization, and Sanitation in Through Circulation Drying Applications

Peter Zagorzycki, Senior Applications Engineer, CPM Wolverine Proctor LLC

(W15)

Over the past 30 – 40 years, the sustainability issue had been with us in a variety of forms and formats. In the 1970's the push was on litter reduction with the focus on the individual responsibility to "not be a litterbug" which became "please dispose of properly". *The introduction of my talk will begin with the viewing of the Native American overlooking the golden gate bridge with the tear running down his cheek"*

From the ecology movement to today's Sustainability effort, the responsibility has shifted from the individual to the corporations and manufacturers. Right or wrong, this shift from individual responsibility to corporate responsibility is the reality of the world live in today.

The good news is that the large retailers are being proactive in demanding a higher sensitivity to the sustainability issue. My talk will discuss the opportunities that we as equipment suppliers, material suppliers, and CPG companies can present to provide retailers and consumers with the green alternatives. This effort will require partnerships to achieve these goals and provide us all with sustainable business opportunities

Optimizing the Workforce: Can It Save the Plant?

Jim Fitzpatrick, VP, Product Architect, Tugboat Software, Inc.

(W16)

Criteria for Designing Traceability Systems

Jarmo Vastapuu, Technical Platform Manager, Tetra Pak

(W17)

