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| 08:00                     | WELCOME COFFEE & REGISTRATION                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 09:00                     | <b>OPENING REMARKS</b><br>PAUL MACDONALD CO-FOUNDER & MANAGING DIRECTOR, BIO INNOVATIONS NORTH AMERICA                                                                                                                                                                                                                                                                                                                                              |
| 09:10<br>OPENING KEYNOTE  | <b>EXECUTIVE DISCUSSION ON THE FUTURE OF BIOMANUFACTURING &amp; BIOECONOMY</b><br>HOSTED BY JOHN HENDERSON CEO, HDR<br>GOVERNOR JIM PILLEN GOVERNOR OF NEBRASKA                                                                                                                                                                                                                                                                                     |
| 09:35<br>FIRESIDE CHAT    | <b>FROM START-UP TO SHELF: HOW MARS SNACKING IS HELPING SCALE PRECISION FERMENTATION INNOVATIONS TO PRODUCE THE NOVEL INGREDIENTS OF THE FUTURE</b><br>GREG HOCKING VICE PRESIDENT GLOBAL R&D NEW INNOVATION TERRITORIES, MARS SNACKING                                                                                                                                                                                                             |
| 10:00                     | <b>TECHNOLOGY READINESS ON AN INDUSTRIAL SCALE</b><br>JASON O'BRIEN SENIOR DIRECTOR R&D GLOBAL FERMENTATION, CARGILL                                                                                                                                                                                                                                                                                                                                |
| 10:15                     | <b>AI FOR LIVING FACTORIES</b><br>RELLY BRANDMAN MOONSHOT LEAD, A-LIFE, A GOOGLE X MOONSHOT<br>JOHN BACHMAN SCIENCE LEAD, A-LIFE, A GOOGLE X MOONSHOT                                                                                                                                                                                                                                                                                               |
| 10:30                     | <b>FROM BENCH TO DEMO PLANT: BIOMADE'S ROADMAP FOR BIOMANUFACTURING SCALE-UP</b><br>EELCO BLUM VP, PPN BUSINESS PILOT PLANT NETWORK, BIOMADE                                                                                                                                                                                                                                                                                                        |
| 10:45<br>PANEL DISCUSSION | <b>FROM FOREST TO FAB: SCALING FORESTRY BIOPRODUCTS FOR RESILIENT U.S. FUELS, CHEMICALS AND MATERIALS SUPPLY CHAINS</b><br>HOSTED BY JAMES BEAUPRÉ DIRECTOR OF INDUSTRIAL COOPERATION, UNIVERSITY OF MAINE<br>DR. COLLEEN WALKER DIRECTOR, PROCESS DEVELOPMENT CENTER, UNIVERSITY OF MAINE<br>MIKE CASSATA CO-FOUNDER, CHIEF DEVELOPMENT OFFICER, BIOFINE NORTH AMERICA<br>PAT STRAUCH CONSULTANT, DIRECTOR EMERITUS, MAINE FOREST PRODUCTS COUNCIL |
| 11:00                     | NETWORKING COFFEE                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 11:40                     | <b>REINVENTING THE TRIPLE HELIX: CLOSING AMERICA'S BIOECONOMY TRANSLATION GAP</b><br>MARK BATHE PHD PROFESSOR OF BIOLOGICAL ENGINEERING, MASSACHUSETTS INSTITUTE OF TECHNOLOGY                                                                                                                                                                                                                                                                      |
| 12:00                     | <b>FROM BREAKTHROUGH MATERIAL TO MARKET REALITY: HOW SOLVERRA IS COMMERCIALIZING PHA</b><br>RICH ROWLEY DIRECTOR OF SALES AND MARKETING, SOLVERRA                                                                                                                                                                                                                                                                                                   |

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| 12:15<br>PANEL DISCUSSION | <b>CLOSING THE PILOT/DEMONSTRATION FACILITY GAP: INFRASTRUCTURE TO ENABLE U.S. BIOMANUFACTURING SCALE-UP</b><br>HOSTED BY TIM FOWLER GENERAL MANAGER, BIOSOLUTIONS, PRIMIENT<br>ISMAEL NIEVES GENERAL MANAGER, IPROOF<br>ANDREW BUHRMANN LEAD PROCESS ENGINEER, BLACK & VEATCH<br>MICHAEL TAI CEO, BOSTON BIOPROCESS<br>BETH CONERTY REGIONAL INNOVATION OFFICER, IFAB TECH HUB                                                                                     |
| 12:45                     | <b>WHEY REIMAGINED: HARNESSING BIOMANUFACTURING TO GENERATE VALUE-ADDED PRODUCTS FROM THE DAIRY SECTOR</b><br>MICHAEL P GAY TECH TRANSFER/BUSINESS DEVELOPMENT/CAPITAL, UNIVERSITY OF WISCONSIN, CENTER FOR DAIRY RESEARCH                                                                                                                                                                                                                                          |
| 13:00                     | NETWORKING LUNCH                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 14:30<br>PANEL DISCUSSION | <b>LESSONS FROM THE FRONT LINE: STRATEGIES FOR SCALE-UP SUCCESSES AND PITFALLS TO AVOID</b><br>HOSTED BY KARL SCHMIEDER PARTNER, MESSAGINGLAB & CO-HOST, GROW EVERYTHING PODCAST<br>STEVE BRAY DIRECTOR, SPECIALTY AND BIOCHEMICAL PROJECT SERVICES, TRITENIAG<br>PHILLIP CRAWFORD DIRECTOR OF PROJECT ENGINEERING, ROEBLING<br>MIKE GLASSPOOL SENIOR PROCESS ENGINEER, MERRICK<br>KYLE POMRANING APPLIED BIOTECHNOLOGY LEAD, PACIFIC NORTHWEST NATIONAL LABORATORY |
| 15:00                     | <b>CRITICAL CAPABILITIES FOR ACCELERATING INDUSTRY ADOPTION OF BIOMANUFACTURING</b><br>CORBIN JOHNSON VP OF BUSINESS DEVELOPMENT AND STRATEGY, AMYRIS                                                                                                                                                                                                                                                                                                               |
| 15:15                     | <b>A WORLD MADE FROM AIR: FROM BIOGENIC CO<sub>2</sub> TO E-JET - SCALING DOMESTIC, CIRCULAR FUEL AND FEEDSTOCK PRODUCTION</b><br>ASHWIN JADHAV VICE PRESIDENT, BUSINESS DEVELOPMENT, TWELVE                                                                                                                                                                                                                                                                        |
| 15:30                     | NETWORKING REFRESHMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 16:00                     | <b>LISTENING TO YOUR CELLS: REAL-TIME INTRACELLULAR INTELLIGENCE TO MANAGE RISKS AND MAXIMIZE YIELD IN INDUSTRIAL FERMENTATION</b><br>JOEL SIROIS FOUNDER-PRESIDENT & CEO, BIOINTELLIGENCE TECHNOLOGIES                                                                                                                                                                                                                                                             |
| 16:15                     | <b>RADICLE CORN CHALLENGE</b><br>HOSTED BY BRIAN JONES CHIEF OPERATING OFFICER, IOWA CORN<br>NEAL GUTTERSON PARTNER AND CTO, RADICLE GROWTH                                                                                                                                                                                                                                                                                                                         |
| 17:00                     | NETWORKING DRINKS                                                                                                                                                                                                                                                                                                                                                                                                                                                   |