

JOINTLY ORGANIZED BY:

SUPPORTED BY:



ECM NETWORKING NIGHT 2026



12 NOVEMBER 2026 (THURSDAY)



6.00PM - 10.00PM



HDB AUDITORIUM

3 PDU (QECF) - APPROVED

3 PDU (PEB) - APPROVED

2 PDU (CENG) - APPROVED

2 PDU (ABCWP) - APPROVED

2 STU (C&S STRUCTURAL/SAFETY) - TBC

**TO REGISTER, PLEASE CLICK
OR SCAN QR CODE**

REGISTRATION FEE:

ECMO: \$45.00 (NETT)

QECF/ABCWP/CENG: \$65.00 (NETT)

IES/ACES MEMBER: \$65.00 (NETT)

PUBLIC / OTHERS: \$ 80.00 (NETT)



FOR ENQUIRES, PLEASE EMAIL: ECMO@IESNET.ORG.SG

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- 5:50PM – 7:00PM: REGISTRATION
- 6:00PM ~ ~: BUFFET DINNER (HALAL) CUM REGISTRATION
- 6:30PM – 7:00PM: ECM EXHIBITION – PRODUCTS AND TECHNOLOGY
- 7:00PM – 7:10PM: WELCOME SPEECH BY IES IMMEDIATE PAST PRESIDENT – ER. CHAN EWE JIN
- 7:10PM – 7:25PM: CELEBRATING OVER 20 YEARS OF IES/ACES WORKING TOGETHER WITH PUB ON ECM – ER. LIM PENG HONG (ACES)
- 7:25PM – 7:35PM: WELCOME SPEECH BY GOH – MR NOORAZMAN NOOR'AIN (PUB)
- 7:35PM – 7:40PM: LAUNCH OF THE UPDATED ECM GUIDEBOOK – 6TH EDITION (2026) – MR NOORAZMAN NOOR'AIN (PUB) AND MR LEE KAY CHAI (SCAL)
- 7:40PM – 8:15PM: ADVANCING GOOD PRACTICES IN EARTH CONTROL MEASURES – MS BRENDA ONG, PUB
- 8:15PM – 8:50PM: PILOT PROJECT FOR AUTOMATED DETECTION OF ECM NON-COMPLIANCES – MR PRINCE PEREIRA, ONEBERRY TECHNOLOGIES PTE LTD
- 8:50PM – 9:25PM: VIRTUAL REALITY SIMULATION-BASED LEARNING IN OPERATION & MAINTENANCE OF SWTPS – MR SIDDHARTH JAIN, LDR PTE LTD
- 9:25PM – 9:35PM: PRESENTATION OF 2026 EXEMPLARY ECMO AWARDS
- 9:35PM – 9:40PM: PRESENTATION OF CERTIFICATES OF APPRECIATION
- 9:40PM – 9:45PM – GROUP PHOTOS
- 9:45PM – 9:55PM – Q&A + FEEDBACK (QR CODE)
- 9:55PM – 10:00PM – END OF THE EVENTS

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SPEAKER 1: MS BRENDA ONG

MS BRENDA ONG IS A SENIOR ENGINEER WITH PUB'S CATCHMENT & WATERWAYS DEPARTMENT AND AN ENVIRONMENTAL ENGINEERING GRADUATE FROM THE NATIONAL UNIVERSITY OF SINGAPORE (NUS). IN HER CURRENT ROLE, SHE ENGAGES STAKEHOLDERS IN THE CONSTRUCTION INDUSTRY ON EARTH CONTROL MEASURES (ECM), PROMOTING GOOD PRACTICES IN THE MANAGEMENT OF CONSTRUCTION-RELATED RUNOFF AND ENVIRONMENTAL PROTECTION. SHE PREVIOUSLY MANAGED SEVERAL RESERVOIRS IN EASTERN SINGAPORE AND SERVED IN PUB'S WATER SUPPLY NETWORK DEPARTMENT, WHERE SHE WAS INVOLVED IN WATER DEMAND MANAGEMENT. HER EXPERIENCE INCLUDES PLANNING AND IMPLEMENTING WATER CONSERVATION PROGRAMMES, AS WELL AS WORKING WITH INDUSTRIAL USERS TO DEVELOP WATER EFFICIENCY MANAGEMENT PLANS AND SECTOR-WIDE MEASURES TO IMPROVE WATER-USE EFFICIENCY.

SYNOPSIS:

OVERVIEW OF THE ECM GUIDEBOOK 2026 (6TH EDITION)

THE PRESENTATION WILL PROVIDE AN OVERVIEW OF THE 6TH EDITION OF THE EROSION & SEDIMENT CONTROL AT CONSTRUCTION SITES GUIDEBOOK (2026), JOINTLY PUBLISHED BY PUB, SINGAPORE'S NATIONAL WATER AGENCY, AND THE SINGAPORE CONTRACTORS ASSOCIATION LTD (SCAL). THE SPEAKER WILL HIGHLIGHT THE KEY UPDATES, NEW SECTIONS AND PRACTICAL ENHANCEMENTS INTRODUCED IN THE LATEST EDITION, WITH EMPHASIS ON THEIR APPLICATION BY KEY STAKEHOLDERS IN THE PLANNING, IMPLEMENTATION, AND MAINTENANCE OF EFFECTIVE EARTH CONTROL MEASURES (ECM) AT CONSTRUCTION SITES. THE PRESENTATION WILL ALSO SHARE GOOD PRACTICES AND PRACTICAL LESSONS TO STRENGTHEN ECM IMPLEMENTATION AND SITE COMPLIANCE, AND SUPPORT INDUSTRY PRACTITIONERS IN APPLYING THE UPDATED GUIDEBOOK EFFECTIVELY IN THEIR DAY-TO-DAY OPERATIONS.

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SPEAKER 2: MR PRINCE PEREIRA

PRINCE IS A FULL-STACK ENGINEER AT ONEBERRY SPECIALISING IN COMPUTER VISION AND AI VIDEO ANALYTICS. HE GRADUATED FROM THE NATIONAL UNIVERSITY OF SINGAPORE (NUS) WITH A DEGREE IN COMPUTER ENGINEERING, WHERE HE WAS RECOGNISED FOR HIS ACADEMIC ACHIEVEMENTS WITH TWO DEAN'S LIST AWARDS AND A TOP STUDENT AWARD FOR HIS FINAL-YEAR PROJECT. HE HAS DEVELOPED AI SOLUTIONS FOR APPLICATIONS RANGING FROM HIGH-RISE LITTERING DETECTION TO GENERATIVE AI-BASED BEHAVIOURAL MONITORING. HIS EXPERTISE IN COMPUTER VISION AND FULL-STACK ENGINEERING ENABLES HIM TO TRANSLATE AI TECHNOLOGIES INTO PRACTICAL MONITORING SOLUTIONS, INCLUDING THE I-ECB SYSTEM FOR EROSION CONTROL MONITORING.

SYNOPSIS:

AI-ENABLED CCTV FOR SMARTER EROSION CONTROL – PILOT PROJECT FOR AUTOMATED DETECTION OF ECM NON-COMPLIANCES

THE I-ECB PILOT EXPLORED THE USE OF AI-ENABLED CCTV TO MONITOR BARE EARTH SURFACES AND ECB COVERAGE AT CONSTRUCTION SITES, ENABLING EARLIER DETECTION AND TIMELY CORRECTIVE ACTION. CONDUCTED AT LTA'S DE182 WORKSITE, THE SYSTEM DEMONSTRATED ENCOURAGING PERFORMANCE, INCLUDING NIGHT-TIME DETECTION AT APPROXIMATELY 95% OF DAYTIME PERFORMANCE. THE I-ECB DASHBOARD SUPPORTS AREA MONITORING, CONFIGURABLE COVERAGE THRESHOLDS, HISTORICAL IMAGE REVIEW, AND AUTOMATED TELEGRAM ALERTS. OVERALL, THE PILOT DEMONSTRATED THE POTENTIAL OF AI TO ENABLE MORE TIMELY AND EFFECTIVE MONITORING OF EROSION CONTROL MEASURES, HELPING TO REDUCE SEDIMENT LOADING ON SWTPS.

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SPEAKER 3: MR SIDDHARTH JAIN

SIDDHARTH JAIN IS THE CHIEF TECHNOLOGY OFFICER (CTO) OF LDR PTE LTD AND SERVES AS THE LEAD FOR THE PROJECT'S PEDAGOGY, CREATIVE AND TECHNICAL DEVELOPMENT. HE IS ALSO FOUNDER OF PLAYWARE STUDIOS AND CO-FOUNDER & CTO OF IMMRSIV, BUILDING SOVEREIGN, AIR-GAPPED AI SYSTEMS FOR DEFENCE, HEALTHCARE, AND ENTERPRISE ACROSS ASIA. WITH 20+ YEARS SPANNING XR, AI, AND GAME-BASED LEARNING, TWO INTERNATIONAL TECHNOLOGY PATENTS, HE PIONEERS LOCAL-FIRST AI THAT'S OWNED, NOT RENTED. HIS CURRENT PLATFORMS — LAILAI AND AEGIS — DELIVER ON-DEVICE INTELLIGENCE FOR DEFENCE OPERATIONS. A FACULTY MEMBER AT NTU, NUS, SIM, AND IAL, SIDDHARTH BELIEVES THE MOST POWERFUL SUPERCOMPUTER RUNS ON 20 WATTS AND SITS IN OUR HEADS.

SYNOPSIS:

SILTY WATER TREATMENT PLANTS (SWTPS) TRAINING THROUGH SIMULATION BASED LEARNING – ENHANCING PRACTICAL SKILLS IN SWTPS OPERATIONS

THE COMPASS SIMULATION-BASED TRAINING SOLUTION, DEVELOPED BY IES ACADEMY AND LDR PTE LTD WITH FUNDING SUPPORT FROM THE INSTITUTE FOR ADULT LEARNING (IAL), USES IMMERSIVE VR/MIXED-REALITY TECHNOLOGY TO STRENGTHEN ECMOS' COMPETENCY IN OPERATING AND MAINTAINING CHEMICAL AND MEMBRANE SWTPS. THE SOLUTION PROVIDES A SAFE, REALISTIC, AND REPEATABLE TRAINING ENVIRONMENT FOR PRACTISING PLANT OPERATIONS, TROUBLESHOOTING, AND EMERGENCY SCENARIOS. IT AIMS TO ENHANCE ECMOS' PRACTICAL SKILLS, CONFIDENCE, AND OPERATIONAL INDEPENDENCE, WHILE OVERCOMING THE SAFETY, WEATHER, AND HANDS-ON LIMITATIONS OF CONVENTIONAL TRAINING.

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