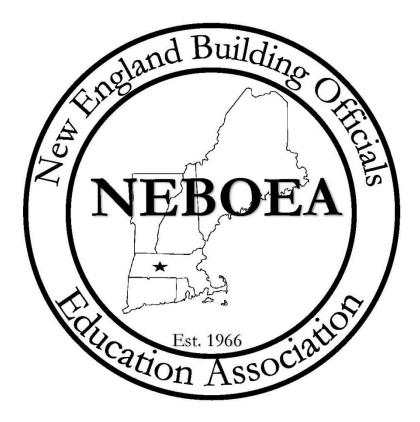
58th Annual Conference Murray D. Lincoln Campus Center University of Massachusetts, Amherst, MA



October 7-9, 2024

In Cooperation with:

Connecticut Building Officials Association Maine Building Officials Association Massachusetts Building Commissioners and Inspectors Association New Hampshire Building Officials Association Rhode Island Building Officials Association ICC Building Safety Association of Vermont

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ICC LIASON

William Nash Regional Manager Government Relations

MONDAY, OCT 07, 2024

ROOM	8:30 am – 10:00 am	10:30 am – 12:00 pm	1:00 pm – 2:30 pm	3:00 pm – 4:30 pm	
162	Joir	3C Barrier Types, UL Certified Barrier Designs & Fire Resistive Joints Wayne Barrow / Dave Goodfellow		Everything you wanted to know about SolarAPP+, but were afraid to ask Stephen Pope	
163	2021 Accessibility and Usability for Commercial and Residential Buildings Kimberly Paarlberg				
165	Proper Methods of Installing Engineered Wood Products John Evans	Introduction to Roof Framing: a course for the novice inspector Matt Hunter	a course for the novice IRC Wall Bracing Overview inspector Noah Humberston		
168	Plumbing, Mechanical, Fuel Gas Inspections per the IRC Gary Gauthier				
174	Applying the ICC400 to Your Project Rob Pickett	Upcoming changes to the 10 th Edition, 2021 IBC Michael Yanovitch	ACI CODE 440.11 on GFRP Reinforced Concrete: Implementation for Building Officials Gustavo Tumialan	Does This Hearth Appliance Installation Meet Code? Karen DeVerdi	

Social will be at 4:30 p.m. on the 10th floor. Join us for networking opportunities and meet several of the exhibitors.

COURSE DESCRIPTIONS

2021 Accessibility and Usability for Commercial and Residential Buildings

Kimberly Paarlberg - ICC

This seminar focuses on the minimum requirements for new or existing construction of accessible residential facilities for compliance with the 2021 International Building Code[®] (IBC[®]) and ICC A117.1-2017 Accessible and Usable Buildings and Facilities. It addresses the design, plan review and inspection of residential buildings and facilities to ensure that people with physical impairments, visual impairments and hearing impairments can use the facilities. Attendees will participate in activities that involve questions and answers, discussion and case study, performing parts of individually and in groups.

ACI CODE 440.11 on GFRP Reinforced Concrete: Implementation for Building Officials

Gustavo Tumialan - Simpson, Gumpertz & Heger

This presentation provides an overview of the new ACI CODE 440.11-22: Building Code Requirements for Structural Concrete Reinforced with Glass Fiber-Reinforced Polymer (GFRP) Bars. ACI 440.11 was developed by an ANSI-approved consensus process and addresses structural systems, members, and connections, including cast-in-place, precast, non-prestressed, and composite construction. The Code provides minimum requirements for the materials, design, and detailing of structural concrete buildings and, where applicable, nonbuilding structures reinforced with GFRP bars that conform to the requirements of ASTM D7957-22. The presentation will cover basic design requirements as well as requirements for construction documentation, field testing and inspections related to structures utilizing GFRP bars. Case studies of current projects and applicable uses will be provided.

Learning Objective:

- Identify the basic material performance properties of GFRP reinforcing bars; how they compare to traditional steel reinforcement; and where they would be used.
- Explain where the new ACI code for GFRP reinforced concrete applies; what the limitations are for using this code; and how it relates to other codes and standards from ACI, ASTM, and ICC.
- Interpret the code requirements as it relates to the installation of GFRP bars; inspection requirements; and other general considerations for their field application.

 Understand the basic mechanics of GFRP reinforced concrete; how it compares to steel reinforced concrete; and the associated code requirements.

Applying the ICC400 to Your Project Rob Pickett – Rob Pickett & Associates, LLC

ICC400-2022 is the Standard on the Design and Construction of Log Structures. It evolved from the best practices of experienced log builders. Learn how to apply this standard whether the logs are harvested and built on site or shipped with varying degrees of completion.

Does This Hearth Appliance Installation Meet Code? Karen DeVerdi – NEHPBA

Starting with an overview of fireplace products and product categories available today, the session then focuses on areas that you should pay particular attention to during your inspection. Attendees will be introduced to the Categories of Hearth Appliances, Categories of Venting Systems, General Venting Installation Issues and Instructions. With this knowledge attendees will be able to better understand proper HEARTH appliance venting and the knowledge needed by those installing the products. With this knowledge, you will be better prepared to inspect these products.

IBC Barrier Types, UL Certified Barrier Design & Fire-Resistive Joints

Wayne Barrow / Dave Goodfellow – Vericon

What are the four fire resistance rated barrier types in the IBC and the one non-rated barrier? Why do none of the UL Certified wall, floor and floor-ceiling designs say anything about firestopping materials in the joints? Why are there so many UL Certified barrier types and how do they relate to the four fire-resistance barriers defined in the IBC. Is screw spacing and tight contact of drywall panels important? What does the code say about patching of drywall and is it different for stud walls versus shaft walls? We will answer those questions and more in this highly informative session.

Everything you wanted to know about SolarAPP+, but were afraid to ask

Stephen Pope – Solar Energy Industries Association

SolarAPP+ is a free, online platform for local governments that standardizes and automates the solar permitting process to ensure code compliance and promote safety. This program will help clarify and debunk some myths and misconceptions that may exist about the platform.

How Fire Testing is Opening Doors to Greater Exposure of Mass Timber

Matt Hunter – American Wood Council

Fire testing to evaluate the performance of building materials and assemblies used in construction has been a requirement of building codes since the late 19th century. With the inclusion of the next generation of heavy timber or Tall Mass Timber in the 2021 and later IBC, new provisions for tall wood buildings up to 270 feet in height and 18 stories are permitted. We will explore the science-based methodology to accurately calculate and model behavior of exposed wood in accordance with ASTM E119 as well as some other non-standardized testing. These newer tests replicate quicker times to flashover and more extreme fire conditions often attributed to modern building materials. We will review multiple tests leading up to the ATF tests that were done in support of the Tall Wood Building Ad Hoc Committee for the 2021 IBC proposal changes and look at more recent fire tests conducted at the Research Institute of Sweden (RISE) in support of fully exposed mass timber ceilings in the Type IV-B construction type in the 2024 IBC. We will also review some noteworthy unconventional testing of cross laminated timber or CLT.

Introduction to Roof Framing: a course for the novice inspector

Matt Hunter – American Wood Council

This presentation will introduce basic engineering principles applicable to light-frame wood construction using both solidsawn lumber and Engineered Wood Products commonly used in the Mid-Atlantic and New England. We will discuss the critical concept of load path and how the roof framing system safely transfers lateral loads through the structural framing system. Best framing practices, correct attachment of Wood Structural Panels (WSP's), the importance of fasteners, and the continuity of connections will also be discussed.

IRC Wall Bracing Overview

Noah Humberston of APA – The Engineered Wood Association

Topics covered in this session include IRC load path, limitations for prescriptive wall bracing, braced wall lines, braced wall panel options, determination of required bracing length and location, APA simplified method, APA wall bracing calculator, and design examples.

Plumbing, Mechanical, Fuel Gas Inspections per the IRC Gary Gauthier – ICC

An in-depth journey of what you need to be looking for during your typical PMG inspection process. (Plumbing, Mechanical, and Fuel Gas)

Proper Methods of Installing Engineered Wood Products John Evans – Trus Joist / Weyerhaeuser

Engineered wood products in construction and proper methods of installation.

Upcoming Changes to the 10th Edition IBC 2021

Michael Yanovitch – Mass Construction Consultants

This class will look at some of the relevant changes affecting your permit applications. Changes include: atriums, smoke control, mass timber, occupied roofs, energy storage, mechanical parking garages, puzzle rooms and more.

TUESDAY, OCT 08, 2024

ROOM	8:30 am – 10:00 am	10:30 am – 12:00 pm	1:00 pm – 2:30 pm	3:00 pm – 4:30 pm	
162	How to Read Firestop Systems for AHJ's Wayne Barrow / Dave Goodfellow		Advantages of Polyiso Insulation in Below Grade and Above Grade Applications Roland Rylander		
163	Transitioning from the 2015 to the 2021 IRC John Gibson				
165	Better understanding of SCL and I-joists Noah Humberston	Code Conforming Connections Using Structural Wood Screws Mark Guthrie	Fire Protection of Kitchen Exhaust and Ventilation Systems Using Flexible Wrap Products Frank McCloud	Solar Roofing Codes and Best Practices Susan Stark	
168	Everything you wanted to know about SolarAPP+, but were afraid to ask Stephen Pope	Energy Code Changes – Massachusetts Michael Yanovitch	Spray Foam 101 Tyler Fiske	Concrete Innovations: Pathways to Reducing Carbon Footprint Frank Mruk	
174	A Guide to Gypsum Association Code Referenced and Online Resources Greg Woolley	Helical Piles Douglas Passeri	Wind Resistant Construction John Morse	Fire Retardant Treated Wood and the IBC Jim Gogolski	
178		Precast Double-Tee Garage Connections Failures due to Vehicular Fatigue Loading Lawrence E. Keenan, AIA PE			

COURSE DESCRIPTIONS

<u>A Guide to Gypsum Association Code Referenced and Online</u> <u>Resources</u>

Greg Woolley – Gypsum Association

This presentation reviews the essentials of gypsum panel products, especially the fire-resistant properties these panels provide. Next, virtual attendees will be guided through the Gypsum Association code referenced documents namely GA-600 Fire Resistance and Sound Control Design Manual, GA-216 Application and Finishing of Gypsum Panel Products, and GA-253 Application of Gypsum Sheathing. Finally, attendees will be introduced to other resources of interest to code officials, all of which are available at gypsum.org.

Advantages of Polyiso Insulation in Below Grade and Above Grade Applications

Roland Rylander – PIMA

This presentation will provide a comprehensive overview of the application of foam sheathing as continuous insulation. It will also review why buildings are insulated below grade and how to obtain the best performance. This presentation will instruct attendees in the following areas: continuous insulation, applications, energy and building code compliance, and installation detailing.

Better understanding of SCL and I-joists

Noah Humberston – APA – The engineered Wood Association

Features and benefits, significant characteristics, and appropriate applications of EWP are reviewed. I-joist topics include vertical load transfer, joist hanger connections, double joist assemblies, allowable holes/notches, and web stiffeners.

Code Conforming Connections Using Structural Wood Screws

Mark Guthrie – OMG Inc

The focus of this presentation is to walk through the properties common to all structural wood screws and show their proper use in the most common applications when used to replace lags, bolts and straps on the jobsite. I should stress that it treats all of the different manufacturer's as equals (Spax, Simpson, GRK, FastenMaster, etc.) and not a competitive comparison or a sales presentation. I have presented this in GA, VA, OH at code events and it is typical that we spend a good amount of time answering audience questions throughout the presentation which tells me that it is of interest to code officials.

Concrete Innovations: Pathways to Reducing Carbon Footprint

Frank Mruk – NRMCA

Every year 6.13 billion square meters of buildings are constructed resulting in 3729 million metric tons CO2 per year. Optimizing the carbon footprint of a building over its lifetime involves finding a balance between reducing embodied carbon and reducing operational emissions. While operational emissions are the amount of carbon emitted during the operation or use of a building, the impact of embodied carbon occurs during construction and renovation and cannot be reduced afterwards. This means that embodied carbon will account for about 50% of the built environment's emissions by 2035, while operational emissions from buildings will decrease due to the growing global environmental awareness and the current regulatory framework, which is pushing real estate players to reduce their operational emissions. Actions must be taken to address embodied carbon to meet the goals of zero emissions by 2050.

Energy Code Changes – Massachusetts

Michael Yanovitch – Mass Construction Consultants

Understand the four levels of Energy Code here in Massachusetts: Base Code, Stretch Code, Specialized Code and Demonstration. In this class you'll learn the structure of the code, the new units of measurement, and which codes apply to which types of construction, Residential Low Rise and Commercial. This class will also touch on local ordinances such as BERDO.

Everything you wanted to know about SolarAPP+, but were afraid to ask

Stephen Pope – Solar Energy Industries Association

SolarAPP+ is a free, online platform for local governments that standardizes and automates the solar permitting process to ensure code compliance and promote safety. This program will help clarify and debunk some myths and misconceptions that may exist about the platform.

Fire Protection of Kitchen Exhaust and Ventilation Systems Using Flexible Wrap Products

Frank McCloud – Alkegen (formerly Unifrax)

This presentation will explore the use of Flexible Wraps in "Grease Duct", "Life Safety Duct", "Dryer Duct", and other Fire Resistance Rated Duct applications. We will examine the Building Code Compliance and installation requirements for these systems.

Fire Retardant Treated Wood and the IBC

Jim Golgolski – Hoover Treated Wood Products, Inc.

This in-depth presentation on fire-retardant-treated wood (FRTW) focuses on its characteristics, properties, and performance in a fire as well as its preparation, treatment, inspection, and labeling. Building code requirements related to FRTW as well as code sections will be discussed. Examples on where FRTW is used in both noncombustible and combustible construction will be illustrated. Technical literature (paper or .pdf) will be provided to all attendees.

Helical Piles

Gouglas Passari Jr – Goliathtech of Western Massachusetts The applications and advantages of using helical piles.

How to Read Firestop Systems for AHJ's Wayne Barrow / Dave Goodfellow – Vericon

The IBC requires all joints and penetrations in fire-resistive barriers to "be protected with an approved... firestop system", yet many AHJs are untrained on how to read systems and perform even a basic visual assessment of installed firestop systems on job sites. After covering the fundamentals of reading penetration and joint systems most of this class will be looking at photos of real field conditions from projects VeriCon has inspected and deciding what system or EJ is appropriate for each field condition. There will be a chance to evaluate what you've learned and get advice on how to progress in your understanding.

Precast Double-Tee Garage Connections Failures due to Vehicular Fatigue Loading

Lawrence E. Keenan, AIA PE - Hoffmann Architects + Engineers

Flange connections of precast concrete double-tee parking structures are poorly configured to withstand high-cycle vehicular loading and fail to meet Code requirements for fatigue resistant design. Connection failures typically spread along the joint until the joint is completely severed. While commonly considered a maintenance item or nuisance, these connections are an essential part of the lateral load resisting system; loss of connections along a joint severs the deck diaphragm and threatens the general stability of the structure. Testing and analysis recently performed by the precast industry purport to allay concerns regarding these connections; however, careful review of these studies reveals the common, modern connection exacerbates the fatigue failure mechanism by concentrating stress at the ends of the welded connection. This presentation explores the fatigue failure mechanism as it applies to double-tee connections and explains how fatigue failures are easily identified in the field. Code requirements for high-cycle fatigue performance are discussed and recent studies are examined to provide an alternate interpretation to that established by the precast industry.

Solar Roofing Codes and Best Practices Susan Stark – IronRidge Inc.

Codes, Standards and Best Practices applicable to rooftop PV installations. Subjects covered include:

•AHJ – definition & role

•Fire Code – Setbacks and Pathway code references & exceptions

•Structural Code, ASCE 7

•Roof Attachment Code, Roof Attachment Capacity, Racking Structural Capacity

•Comp Shingle Flashing definition/ guidance / UL 2703A Listing / New shingle construction

•Electrical Code – NEC 2020 changes (racking related), PV Array Bonding path, Wire Management Codes

- •UL Standards
- UL 2703 Standard
- •Modules Clamping zones

•UL 3741 PV Hazard Control Systems - Residential & Commercial design considerations

• New ANSI/SEIA Standards

Spray Foam 101

Tyler Fiske – Creative Polymer Solutions

This is a presentation geared towards a better understanding of spray foam insulation and roofing. Topics include open cell, closed cell, differences, thermal and ignition barriers, common misconceptions in insulation, R value, vapor barrier.

Wind Resistant Construction

John Morse – Simpson Strong-tie

- General Introduction(s)

- Fastener and Connector basics (proper installation using manufacturer's requirements)

- Continuous Load-Path requirements
- Addressing Uplift Forces
- Lateral / Overturning Forces
- Wall Bracing versus Shear Walls
- Wrap-up questions / discussion

WEDNESDAY, OCT 09, 2024

ROOM	8:30 am – 10:00 am	10:30 am – 12:00 pm	1:00 pm – 2:30 pm	3:00 pm – 4:30 pm
162	Flood Resistant Construction of the 2021 IRC Eric Carlson	Air Source Heat Pumps: Best Practices, Proper sizing and A2L Refrigerants Charles McCracken		
163				
165	Circuit to Compliance: Code Requirements for Energy Storage Systems Jennifer Hoyt	780 CMR 10th Edition: An Overview of Changes to the New MA Building Code Kevin Lynch / Brian Kuhn		
168				
CCA	Professional Development Round Table NEBOEA Board			

COURSE DESCRIPTIONS

780 CMR 10th Edition: An Overview of Changes to the New MA Building Code

Kevin Lynch / Brian Kuhn – Code Red Consultants, LLC

Code Red Consultants will present on the significant changes of the 10th edition of the Massachusetts State Building Code (780 CMR), highlighting key differences from the 9th edition for chapters related to fire protection and life safety. The base code is changing from the 2015 IBC (9th edition) to the 2021 IBC (10th edition). Discussion will include new provisions for tall mass timber buildings, integrated fire/life safety systems testing, laboratory suites, and other miscellaneous life safety and fire protection topics.

Air Source Heat Pumps: Best Practices, Proper sizing and A2L Refrigerants

Charles McCracken – CLEAResult

This session will explain

1. Why modern, variable speed, air source heat pumps work in cold weather.

2. Best practices for Installation and Operation

3. Proper sizing to ACCA Manual J and Manual S principles will be demonstrated

4. A summary of a 2022 ASHP Study conducted in Rhode Island and

5. The Refrigerant Transition to A2L Mildly Flammable Refrigerants Effective January 1, 2026, but likely to begin extensively in Summer 2025.

Circuit to Compliance: Code Requirements for Energy Storage Systems

Jennifer Hoyt – Code Red Consultants

In this electrifying session, we delve into the world of energy storage systems, ranging from larger-scale commercial installations to wall-mounted panels in single-family homes. Utilizing case studies, we will navigate the permitting and regulatory landscape and discuss the array of challenges faced by code enforcers.

Flood Resistant Construction of the 2021 IRC

Eric Carlson – MA DCCR – Flood Hazard Management Program This course will cover the residential flood-resistant construction standards of the 2021 IRC found mostly in Section R322, also in Chapters 1, 2 and 4. Related FEMA guidance will also be covered.

Professional Development Roundtable NEBOEA

All Things ICC, William Nash

Soft Skills, Ray Steadward / Peter Zvingilas Sell" Compliance.

"How can I approve this?"/ Worst allowed by law.

Don't do anything you don't have to do.

If they knew how to do it, they wouldn't do it wrong....Don't get jaded.

It's not our job to teach them...but it is....

We are from the government and we are here to help. It's not personal, so don't make it that way.

It's a really tough job to do well, there is a ton of technical requirements that are hard enough on their own, but pile the customer service aspect on and it can seem insurmountable, and we are here to talk about some tips that may help you help the customers and hopefully yourselves...

Flies with honey than vinegar: You typically don't need to club people into compliance. The goal is compliance and we need to help them comply. When they want to work WITH us, it generally gets easier for all of us.

Remembering that it is minimum compliance and the worst they can build by law, not how we would do it or did it or we think would be a good idea.

Stay in your lane....If you are not responsible for licensing, don't do it...If you can get someone out of a permit, do it...Get rid of anything you don't "have to" do..

Very few people I have met maliciously do things wrong...1 or 2 a year over thousands of permits...They want to do it right, they just don't know...So how can we help? Better plan review? Pre-submittal meetings? Outreach? Open office hours? Be approachable....An ounce of prevention is worth a pound of cure...

Inspections and plan review: Try not to tell people they are wrong...even though they are... "This does not seem to comply with...Please explain" For inspections try not telling people that "they failed" try (framing/ egress/ whatever "doesn't comply with" or "doesn't meet" code...

This discussion is to hopefully help you find ways to be a collaborative member of the construction process. We often need to give people bad or expensive news and it is best for all of us if we can figure out how to do it in a nice way or ways to help avoid issues entirely. We will never be 100% successful, but we still need to strive for it...

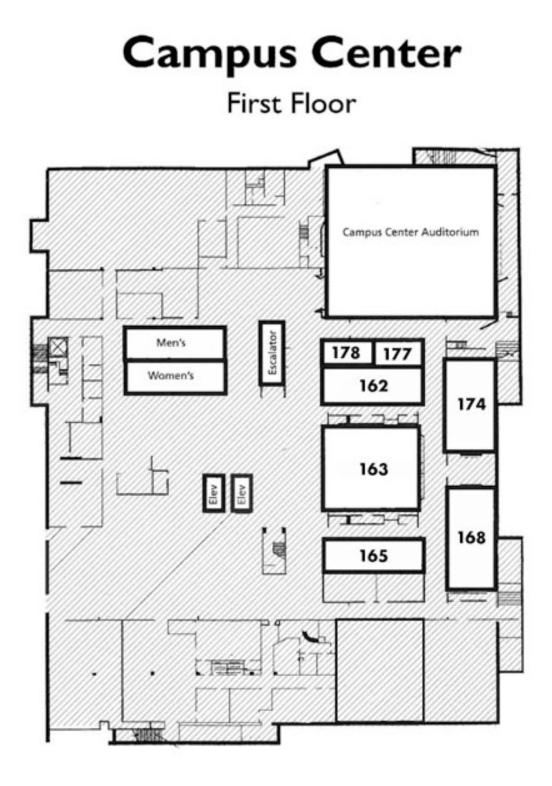
Raising the Profile, Tim Herlihy/ Don Fiske

What is your job title and what does your job description ask you to do? Where did you start with your career as a code official compared to where you are now? We spend hours training on the rules and regulations of the codes we are hired to enforce, but often need to remember we are really trying to administer the codes. What efforts and steps have you made with your department to raise your profile? How are your relationships with other departments in your organization such as police and fire? What are your daily frustrations and conflicts? How do you deal with them best? What else can we do to better our image as code officials and better show that we are here to help while still do our best to ensure safe buildings and properties in our communities we work it?

Technology in the Building Department, Paul Demers / TBD

Customer Service Expectations, Ben Mc Dougal / Mark Robidoux

Different departments have different expectations for customer service. Do you return calls within 2 hours or 2 days? Are you expected to help residents and contractors design their projects? Is your administrative staff happy to help residents and contractors? These are the questions we want to discuss and maybe we all get some new ideas for our departments.



2024 CONFERENCE COURSE EVALUATION WEDNESDAY, OCTOBER 09, 2024

By returning this completed Evaluation Form at the end of the day your name is automatically entered in the raffle to be held at 1:00 P.M. Wednesday in the Campus Center Auditorium.

Your presence is required to win.

	First pri	ze: \$200	Second prize: \$100	Third prize:	\$50
<u>8:30-10:00</u>	ROOM	TOPIC		INSTRUCTOR	
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CUT ON THE LINE ABOVE

DO NOT REMOVE THIS PORTION OF THE EVALUATION - BELOW IS A RAFFLE TICKET

NAME:

Home address: _____

2024 CONFERENCE COURSE EVALUATION TUESDAY, OCTOBER 08, 2024

By returning this completed Evaluation Form at the end of the day your name is automatically entered in the raffle to be held at 1:00 P.M. Wednesday in the Campus Center Auditorium.

Your presence is required to win.				
First pri	ize: \$200	Second prize: S	\$100 Third p	rize: \$50
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2024 CONFERENCE COURSE EVALUATION MONDAY, OCTOBER 07, 2024

By returning this completed Evaluation Form at the end of the day your name is automatically entered in the raffle to be held at 1:00 P.M. Wednesday in the Campus Center Auditorium.

Your presence is required to win.				
First pri	ize: \$200	Second prize:	\$100	Third prize: \$50
<u>8:30-10:00</u> ROOM	TOPIC			INSTRUCTOR
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<u>1:00-2:30</u> ROOM	TOPIC			_INSTRUCTOR
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<u>3:00-4:30</u> ROOM	TOPIC			_INSTRUCTOR
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NAME: _____Home address: _____