

# NEW ENGLAND BUILDING OFFICIALS EDUCATION ASSOCIATIONS 52<sup>nd</sup> CONFERENCE

## OCTOBER 1-3, 2018 PROGRAM SCHEDULE

THE FOLLOWING PROGRAM IS SUBJECT TO MODIFICATIONS AND CANCELLATIONS WITHOUT NOTICE. CHECK WITH THE NEBOEA SITE, [www.neboea.org](http://www.neboea.org), THE UMASS SITE AND THE WHITE BOARD AT THE INFORMATION DESK ON THE FIRST FLOOR FOR UPDATES.

### MONDAY

EXHIBITORS ARE OPEN ALL DAY - PLEASE VISIT AND SPEND TIME WITH OUR FRIENDS AND PARTNERS IN CODE ENFORCEMENT.

7:30 am – 1:00 pm	Con course	<p><b>PRE-REGISTRATION SIGN IN</b>  <b>at the Registration Tables on the 1<sup>st</sup> Floor Concourse, Campus Center</b>  <b>AFTER 1:00 PM</b>                  or any time thereafter, go to Room 810 on the Eighth floor to pick up your packet.</p>					
7:30 am – 8:30 am	Auditorium (CCA)	Coffee and pastry					
8:30 am – 3:30 pm	CCA	<p style="text-align: center;">EXHIBITORS</p> Please visit and spend time with our friends and partners in code enforcement.					
<b>CLASSES</b>							
Time	Room	Class Title	Sponsor	Instructor	Course Number	Hrs.	ICC CEU's
8:30am-10:00am	162-75	Hydrogen Safety: What You Need to Know When Permitting Hydrogen Facilities	Pacific Northwest National Laboratory	Nick Barilo		1.5	.15
		<p><u>Learning Objectives:</u> The current status and application of hydrogen fuel cells; identify fundamental safety considerations for hydrogen and fuel cell applications; identify the applicable codes and standards; and list the resources available to designers, AHJs and first responders for the deployment of hydrogen fuel cells.</p> <p><u>General Description:</u> Applicable building and fire codes - Hydrogen fuel cells are a key element of a broad portfolio for building a competitive, secure, and sustainable clean energy economy. This session will discuss the current status of hydrogen fuel cells and the applicable safety features and codes and standards that enable their deployment. The resources to be discussed play a key role in reaching, educating and informing stakeholders who contributions will help enable a broad set of fuel cell applications.</p>					
	163-C	2015 IRC® Performing Residential Plumbing Inspections	International Code Council	John Farinelli		1.5	.15
<p><u>Learning Objectives:</u> Define basic terms related to a plumbing inspection. Describe the plumbing inspection process in a step-by-step fashion. Explain concepts of specific requirements. Determine if a given residential dwelling complies with Chapters 25 through 33 of the 2015 International Residential Code®</p>							

		<p>(IRC®).</p> <ul style="list-style-type: none"> <li>•Locate and apply plumbing code requirements. Complete inspection checklists.</li> </ul> <p><u>General Description:</u> This course reviews the plumbing requirements of the 2012 International Residential Code (IRC®). The details provided will enhance your understanding of the plumbing terminology, equipment, materials and methods of installation as related to residential construction. This seminar concentrates on the plumbing portion of the IRC. It covers the minimum requirements for residential plumbing inspections. You will also discuss major portions of a residential plan. During this training participants will experience lecture, hear relevant examples, and participate in group discussions pertaining to a residential plumbing inspection. Participants will also participate in activities that involve a checklist for performing residential plumbing inspections.</p>						
	165-69	Commercial Air Barriers (Part 1)	Mass Save (c/o PSD)	Mike DeWein		1.5	.15	
		<p><u>Learning Objectives:</u> The learning objectives of this course are to understand 2015 IECC code requirements for air barriers, types of air barrier systems, how to successfully install of an efficient air barrier, and how to verify air barrier system continuity during plan review and field inspections.</p> <p><u>General Description:</u> This course will cover Massachusetts 9th Edition energy code requirements for commercial building air barriers, including those in ASHRAE 90.1-2013 and the 2015 IECC. The course will clarify these requirements for better specification by designers and easier review by code enforcement officials. The presenter will also discuss design and application of code-compliant air barrier systems and will also provide tips on how to review construction details for air barrier continuity and how to inspect them in the field.</p>						
	168-72	DES 605 Outcomes of the ICC Tall Wood Ad Hoc Committee: Proposals and Discussion	American Wood Council	Matthew "Matt" Hunter, BCO		1.5	.15	
		<p><u>Learning Objectives:</u> 1. Identify the make-up of the TWB Ad Hoc Committee and the process used to reach consensus on proposed code changes.  2. Recognize how the new types of construction compare with existing types of construction in the International Building Code and specify the inherent differences and conservative approaches the new types have.  3. Understand the process by which the allowable heights, areas, and number of stories permitted for the proposed mass timber types of construction were developed and will be able to utilize the information for building design.  4. State the fire resistance requirements for mass timber building elements. Further, they will be able to distinguish when and where non-combustible protection can be omitted.</p> <p><u>General Description:</u> 2018 Group A code development process. The intensive research performed by the Committee will be presented in addition to the resulting proposals, developed by Committee consensus and submitted to the ICC Code Development Process. The changes were submitted to ICC in accordance with the January 8, 2018 deadline and will be considered during Committee Action Hearings from April 15 – 25, 2018</p>						
	174-76	Engineered wood products installation	Weyerhaeuser - Trus Joist Engineered wood Products	Bob McCue / Craig Smith		1.5	.15	
		<p><u>Learning Objectives:</u> Participants will learn about the latest products and uses for Manufactured Wood products in residential and light commercial applications in floors, roofs, and wall construction.</p> <p><u>General Description:</u> This class is designed to inform Code officials on how manufactured wood products can help meet the intent of the 2015 code. Installation, design properties, software calculations, do's and don'ts. Class will cover typical floor and roof installation, code requirements for tall walls, snow loads, reading software calculations and substitution of products</p>						
10:00am-10:30am	CCA	BREAK						
10:30am-12:00pm	162-75	Introduction to the Structural Building Component Industry: A Metal Plate Connected Wood Truss Inspection Checklist	SBCA - Northeast	John Goodrich		1.5	.15	
		<p><u>Learning Objectives:</u> This presentation is ideal for professionals seeking knowledge of truss construction and installation procedures.</p> <p><u>General Description:</u> Reading truss designs and placement diagrams, using a seven step truss inspection process and understanding best practices for handling, installing and bracing metal plate connected wood trusses are all addressed. Also covered is the design software used in truss designs, illustrating how trusses are affected by changes in loads and other parameters. This presentation also discusses ways of increasing the energy efficiency requirements of the building envelope within the context of the requirements of the 2015 International Residential Code (IRC) and International Energy Conservation Code (IECC) for ceiling insulation and truss heel heights.</p>						
	163-C	2015 IRC® Performing Residential Plumbing Inspections	International Code Council	John Farinelli		1.5	.15	

		<p><b>Learning Objectives:</b> Define basic terms related to a plumbing inspection. Describe the plumbing inspection process in a step-by-step fashion. Explain concepts of specific requirements. Determine if a given residential dwelling complies with Chapters 25 through 33 of the 2015 International Residential Code® (IRC®).</p> <p>Locate and apply plumbing code requirements. Complete inspection checklists.</p> <p><b>General Description:</b> This course reviews the plumbing requirements of the 2012 International Residential Code (IRC®). The details provided will enhance your understanding of the plumbing terminology, equipment, materials and methods of installation as related to residential construction. This seminar concentrates on the plumbing portion of the IRC. It covers the minimum requirements for residential plumbing inspections. You will also discuss major portions of a residential plan. During this training participants will experience lecture, hear relevant examples, and participate in group discussions pertaining to a residential plumbing inspection. Participants will also participate in activities that involve a checklist for performing residential plumbing inspections.</p>					
	165-69	Commercial Air Barriers (Part 2)	Mass Save (c/o PSD)	Mike DeWein		1.5	.15
		<p><b>Learning Objectives:</b> The learning objectives of this course are to understand 2015 IECC code requirements for air barriers, types of air barrier systems, how to successfully install of an efficient air barrier, and how to verify air barrier system continuity during plan review and field inspections.</p> <p><b>General Description:</b> This course will cover Massachusetts 9th Edition energy code requirements for commercial building air barriers, including those in ASHRAE 90.1-2013 and the 2015 IECC. The course will clarify these requirements for better specification by designers and easier review by code enforcement officials. The presenter will also discuss design and application of code-compliant air barrier systems and will also provide tips on how to review construction details for air barrier continuity and how to inspect them in the field.</p>					
	168-72	2015 IRC Wall Construction- Prescriptive Design	MiTek-US Builder Prod. Div. USP Structural Connect.	Randall Holgate		1.5	.15
		<p><b>Learning Objectives:</b> 1. Determine lateral Load design criteria 2. How Load travels thru a House. 3. Wall Bracing: Braced Lines and Braced wall panels 4. IRC Bracing methods 5. Minimum required bracing</p> <p><b>General Description:</b> Understand IRC 2015 bracing requirements, varuious methods of bracing, examples and discussion.</p>					
	174-76	Foam Plastic Insulation and the Codes (1)	H C Fennell Consulting, LLC	Henri Fennell, CSI/CDT		1.5	.15
		<p><b>Learning Objectives:</b> Participants will be able to identify the most common code violations encountered in typical foam installations. Participants will be able to determine if a foam installation should be considered a residential or a commercial installation. Participants will be able to determine when thermal or ignition barriers and/or methods are required to protect foamed plastic products. Participants will be able to use submittals, ESRs, and labeling to determine if a product has approvals for specific project applications.</p> <p><b>General Description:</b> The recent growth in the use of polyurethane foam insulation and changes in the related codes and standards have created the need to provide designers, installers, code officials, and other industry members with an update on the new requirements for projects that include foam plastic insulation. Code provisions discussed include requirements for fire protection in attics, basements and crawl spaces, rim joists, roof assemblies, mechanical system components, as well as requirements for less well-known building assemblies and systems. The presentation includes examples from projects that demonstrate the requirements for various building types and building locations.</p>					
12:00 pm-1:00 p.m.	CCA	Buffet Lunch – Please remember to have your lunch ticket with you!!!					
1:00 pm – 2:30 pm	162-75	Accessibility Update (3 hours 3-4:30 room 162-75)	United Spinal Association-Accessibility Services	Dominic Marinelli		1.5	.15
		<p><b>Learning Objectives:</b> -Understand problem application areas of state accessibility requirements - Understand key differences between state and federal accessibility requirements - Understand basis of accessibility complaints of cereal plaintiffs, and other government agencies.</p> <p><b>General Description:</b> This presentation reviewed by the Massachusetts Architectural Access Board (MAAB) will focus on the states accessibility requirements (521 CMR) for commercial and residential occupancies. Differences between 521 CMR and the Federal Fair Housing Act Accessibility Guidelines, and the 2010 ADA Standards will also be discussed.</p>					
	163 C	2015 IRC Performing Residential Mechanical Inspections	International Code Council	John Farinelli		1.5	.15

		<p><u>Learning Objectives:</u> Define basic terms related to a mechanical inspection. Describe the mechanical inspection process in a step-by-step fashion. Explain concepts of specific requirements. Determine if a given residential dwelling complies with the 2015 IRC. Locate and apply mechanical code requirements. Complete inspection checklists.</p> <p><u>General Description:</u> This seminar will focus on the key changes from the 2015 International Residential Code® (IRC®). The details provided will enhance your understanding of mechanical terminology, equipment, materials and methods of installation as related to residential construction. This seminar concentrates on the mechanical portion of the IRC along with the appropriate portions of the International Fuel Gas Code and the International Energy Conservation Code. It covers the minimum requirements for residential mechanical inspections. You will also discuss major portions of a residential plan. This seminar will provide information so that the residential mechanical inspector can perform inspection tasks that are consistent with the requirements in the 2015 IRC.</p>				
	165-69	9th Edition Energy Code: Top Ten Things You Really Need to Know	Mass Save (c/o PSD)	Mike DeWein	1.5	.15
		<p><u>Learning Objectives:</u> The learning objectives of this course are to understand key requirements and "hot" topics in the 2015 IECC and the 9th Edition of the MA Code. These 10 things include documentation requirements, solar-ready provisions, COMcheck, air barrier requirements, commissioning requirements, additional efficiency measures among a few other topics.</p> <p><u>General Description:</u> This course will cover Massachusetts 9th Edition energy code requirements for commercial building air barriers, including those in The 9th Edition of the Massachusetts State Building Code (780 CMR) became mandatory on January 1, 2018, following a concurrency period from October 20 to December 31, 2017. This course, intended for code enforcement officials, contractors, and design professionals, will address 9th Edition updates, changes between the 2012 and 2015 IECC, and the "Top 10" commercial energy code compliance issues. The biggest changes that came with the 9th Edition were the requirement for COMcheck documentation for all commercial new construction projects, and the requirement for most commercial new construction designs to designate solar-ready zones on plans. Additional topics include 2015 IECC requirements for air barrier construction, mechanical and lighting system commissioning, and "additional efficiency packages"</p>				
	168-72	MII002 How to Inspect Metal Connector Plated Wood Trusses	MiTek-US Builder products Div. (USP Structural Cone.	Randall Holgate	1.5	.15
		<p><u>Learning Objectives:</u> 1. Understand specification requirements of metal plated roof and floor trusses. 2. Learn to read basic truss placement plans and truss design dwgs. and how to use them. 3. Understand the truss design provisions of the I Codes, NDS stds. and ANSI/TPI. 4. Discussion of truss repairs and design alterations</p> <p><u>General Description:</u> Identifying accurate truss locations via accompanying drawings. How to determine improper locations. Observations of excess material indicating improper installation. How to recognize proper bracing.</p>				
	174 -76	Foam Plastic Insulation and the Codes (2)	H C Fennell Consulting, LLC	Henri Fennell, CSI/CDT	1.5	.15
		<p><u>Learning Objectives:</u> Participants will be able to identify the most common code violations encountered in typical foam installations. Participants will be able to determine if a foam installation should be considered a residential or a commercial installation. Participants will be able to determine when thermal or ignition barriers and/or methods are required to protect foamed plastic products. Participants will be able to use submittals, ESRs, and labeling to determine if a product has approvals for specific project applications.</p> <p><u>General Description:</u> The recent growth in the use of polyurethane foam insulation and changes in the related codes and standards have created the need to provide designers, installers, code officials, and other industry members with an update on the new requirements for projects that include foam plastic insulation. Code provisions discussed include requirements for fire protection in attics, basements and crawl spaces, rim joists, roof assemblies, mechanical system components, as well as requirements for less well-known building assemblies and systems. The presentation includes examples from projects that demonstrate the requirements for various building types and building locations.</p>				
2:30 pm-3:00 pm	CCA	BREAK				
3:00 pm – 4:30 pm	162-75	Accessibility Update	United Spinal Association- Accessibility Services	Dominic Marinelli	1.5	.15
		<p><u>Learning Objectives:</u> -Understand problem application areas of state accessibility requirements - Understand key differences between state and federal accessibility requirements - Understand basis of accessibility complaints of cerebral plaintiffs, and other government agencies.</p> <p><u>General Description:</u> This presentation reviewed by the Massachusetts Architectural Access Board (MAAB) will focus on the states accessibility requirements</p>				

	(521 CMR) for commercial and residential occupancies. Differences between 521 CMR and the Federal Fair Housing Act Accessibility Guidelines, and the 2010 ADA Standards will also be discussed.					
163 C	2015 IRC Performing Residential Mechanical Inspections	International Code Council	John Farinelli		1.5	.15
	<p><u>Learning Objectives:</u> Define basic terms related to a mechanical inspection. Describe the mechanical inspection process in a step-by-step fashion. Explain concepts of specific requirements. Determine if a given residential dwelling complies with the 2015 IRC. Locate and apply mechanical code requirements. Complete inspection checklists.</p> <p><u>General Description:</u> This seminar will focus on the key changes from the 2015 International Residential Code® (IRC®). The details provided will enhance your understanding of mechanical terminology, equipment, materials and methods of installation as related to residential construction. This seminar concentrates on the mechanical portion of the IRC along with the appropriate portions of the International Fuel Gas Code and the International Energy Conservation Code. It covers the minimum requirements for residential mechanical inspections. You will also discuss major portions of a residential plan. This seminar will provide information so that the residential mechanical inspector can perform inspection tasks that are consistent with the requirements in the 2015 IRC.</p>					
165-69	Inclined Pile Footing Technology – Innovations for Deck Construction	Pin Foundations – Diamond Pier	Mike Donoghue		1.5	.15
	<p><u>Learning Objectives:</u> Presentation focuses on a code compliant and proven innovation for residential exterior deck footings.</p> <p><u>General Description:</u> Foundation basics, inclined pile footing design and engineering, inclined pile footing applications including commercial and residential uses. The path to code compliance for the inclined pile footing innovations including rigorous ICC ES testing performance submittals with an overview of the continuous work to remain compliant with evolving building codes and installation and inspections.</p>					
168-72	USP-301 Introduction to Wind Design in Residential Construction	MiTek-US Builder Prod. Div. USP Structural Connect.	Randall Holgate		1.5	.15
	<p><u>Learning Objectives:</u> 1. Review wind load &amp; terminology and concepts. 2. Overview of how wind forces are applied (Load Path) 3. Identify common wood frame failure modes. 4. Engineered and prescriptive design requirements</p> <p><u>General Description:</u> How wind forces affect wood framed structures, Use of devices to secure the structure, view wind damaged buildings and discussion</p>					
174-76	Foam Plastic Insulation and the Codes (3)	H C Fennell Consulting, LLC	Henri Fennell, CSI/CDT		1.5	.15
	<p><u>Learning Objectives:</u> Participants will be able to identify the most common code violations encountered in typical foam installations. Participants will be able to determine if a foam installation should be considered a residential or a commercial installation. Participants will be able to determine when thermal or ignition barriers and/or methods are required to protect foamed plastic products. Participants will be able to use submittals, ESRs, and labeling to determine if a product has approvals for specific project applications.</p> <p><u>General Description:</u> The recent growth in the use of polyurethane foam insulation and changes in the related codes and standards have created the need to provide designers, installers, code officials, and other industry members with an update on the new requirements for projects that include foam plastic insulation. Code provisions discussed include requirements for fire protection in attics, basements and crawl spaces, rim joists, roof assemblies, mechanical system components, as well as requirements for less well-known building assemblies and systems. The presentation includes examples from projects that demonstrate the requirements for various building types and building locations.</p>					

**4:30 pm – Adjourn for the day to:**

**THE FOLLOWING IS BY INVITATION ONLY**

**J.W. Olver Design Building: Introduction and Guided Tour of the State-of-the-Art Mass Timber Building at UMass, Amherst**

**Location: Olver Design Building, Room 170, 551 North Pleasant Street, UMass, Amherst**

**What: Introduction, Meet and Greet, and a guided tour by Faculty in the Building and Construction Technology (BCT) Program at UMass (Peggi**

Clouston, PEng, PhD; Carl Fiocchi, PhD; and Alex Schreyer, MAsC, Director of the BCT Program). Light refreshment to be served.

## TUESDAY

**BREAKFAST 7:00 - 8:15 AM –CCA 1<sup>st</sup> Floor.**  
**Please remember to have your Breakfast Ticket with you!!!**

**EXHIBITORS ARE OPEN ALL DAY - PLEASE VISIT AND SPEND TIME WITH OUR FRIENDS AND PARTNERS IN CODE ENFORCEMENT.**

Time	Room	Class Title	Sponsor	Instructor	Course Number	Hrs.	ICC CEU's
8:30 am – 10:00 am	162-75	Shakes & Shingles-Review ICC Requirements for Grades of Shakes & Shingles and Roof & Sidewall Installation	Cedar Shake & Shingle Bureau	Tony Bonura		1.5	.15
		<p><u>Learning Objectives:</u> Identifying the different types &amp; grades of shakes &amp; shingles and how this relates to installation and code conformance</p> <p><u>General Description:</u> Clarification of the various grades of shakes &amp; shingles and how grade characteristics relate to installation exposures to conform with wall and roof installation code criteria in 2015 IRC Sections R703.6, R905.7, R905.8 &amp; 2015 and IBC Sections 1507.8.5 &amp; 1507.9.6. Technical publications pertaining to roof and wall installation, will be distributed to all who attend.</p>					
	163C	2015 IRC® Performing Residential Building Inspections	International Code Council	John Farinelli		1.5	.15
		<p><u>Learning Objectives:</u> Upon completion, participants will be better able to: Explain the purpose of building foundation and final inspections. Describe the building inspection process in a step-by-step fashion. Determine if a given one- or two-family dwelling complies with the 2015 IRC. Complete inspection checklists.</p> <p><u>General Description:</u> This seminar provides building inspectors with fundamental knowledge necessary to administer and enforce applicable code requirements from the 2015 IRC, which apply to foundation and final residential building inspection. Specifically, the seminar provides participants with checklists that enable those performing foundation and final residential building inspections to determine whether the materials, design, construction, installation and location of building components comply with the code.</p>					
	165-69	Introduction to the Structural Building Component Industry: A Metal Plate Connected Wood Truss Inspection Checklist	SBCA - Northeast	John Goodrich		1.5	.15
		<p><u>Learning Objectives:</u> Attendees will learn how to read a truss design drawing and a truss placement diagram. Attendees will learn how to use the seven step truss inspection process, the best practices for handling, installing and bracing metal plate connected wood trusses. Attendees will see the design software used in truss designs, illustrating how trusses are affected by changes in loads and other parameters.</p> <p><u>General Description:</u> This presentation is ideal for professionals seeking knowledge of truss construction and installation procedures. Reading truss designs and placement diagrams, using a seven step truss inspection process and understanding best practices for handling, installing and bracing metal plate connected wood trusses are all addressed. Also covered is the design software used in truss designs, illustrating how trusses are affected by changes in loads and other parameters. This presentation also discusses ways of increasing the energy efficiency requirements of the building envelope within the context of the requirements of the 2015 International Residential Code (IRC) and International Energy Conservation Code (IECC) for ceiling insulation and truss heel heights.</p>					
	168-72	Fire-Retardant Treated Wood and the International Building Code	Hoover Treated Wood Products Inc.	James P. Gogolski		1.5	.15
		<p><u>Learning Objectives:</u> What is fire-retardant treated wood, IBC 2303.2 Why it is allowed in noncombustible construction What is a proper label Where it is allowed in the building code</p> <p><u>General Description:</u> Fire-retardant treated wood technical characteristics and building code applications Examples of use in Type I, II and III (pedestal</p>					

		buildings) Also uses in stages, platforms, kiosks in shopping malls Details of 1 and 2-hour fire-rated walls will be covered				
	174-76	Concrete - Back to basics (same program presented twice)	Tilcon Connecticut Inc.	Kevin Miller	1.5	.15
		<u>Learning Objectives:</u> How concrete is designed and produced, strength classes, admixtures, placement considerations, site inspections. <u>General Description:</u> Informative session on concrete basics starting with developing concrete mix designs, jobsite problems, post placement defects followed by an open discussion on the need for residential testing and documentation.				
9:00 am – 12:00 pm	177	MA Educational Board Committee Meeting				
10:00 am– 10:30am	CCA	BREAK				
10:30am-12:00pm	162-75	Industry Efforts to Standardize the Treatment of Structural Fire Protection Variances	Simpson Gumpertz & Heger, Inc.	Kevin J. LaMalva	1.5	.15
		<u>Learning Objectives:</u> 1. Understand the key differences between standard fire resistance design and structural fire engineering 2. Learn about the treatment of fire effects as a structural load 3. Understand new industry consensus on what constitutes a satisfactory variance <u>General Description:</u> In cases where an alternative to the prescriptive design method for structural fire protection is sought, the U.S. has lacked an industry consensus on the matter until recently. ASCE/SEI 7 is the parent standard for structural engineering for the International Building Code (IBC), and now contains guidance that addresses structural fire protection variances. These new provisions will be bolstered by the soon-to-be-released ASCE/SEI Manual of Practice on the subject.				
	163C	2015 IRC® Performing Residential Building Inspections	International Code Council	John Farinelli	1.5	.15
		<u>Learning Objectives:</u> Upon completion, participants will be better able to: Explain the purpose of building foundation and final inspections. Describe the building inspection process in a step-by-step fashion. Determine if a given one- or two-family dwelling complies with the 2015 IRC. Complete inspection checklists. <u>General Description:</u> This seminar provides building inspectors with fundamental knowledge necessary to administer and enforce applicable code requirements from the 2015 IRC, which apply to foundation and final residential building inspection. Specifically, the seminar provides participants with checklists that enable those performing foundation and final residential building inspections to determine whether the materials, design, construction, installation and location of building components comply with the code.				
	165-69	Are You Ready for Solar-Ready? And Other Energy Code Updates (Residential)	Mass Save (c/o PSD)	Mike DeWein & John Puc	1.5	.15
<u>Learning Objectives:</u> The learning objectives of this course are to understand the intent behind solar-ready provisions, scope of solar-ready requirements, important exceptions to these provisions, construction documentation requirements to show solar-readiness, and learn about some other significant code changes that happened between the 2012 IECC & 2015 IECC. (Learning objectives and description for 1a is given in another form) <u>General Description:</u> This module will review new code provisions in the Massachusetts 9th Edition and significant changes between the 2012 and 2015 IECC. The first portion of the program covers new solar-ready provisions including scope, solar-ready rooftop area requirements, exceptions, roof orientations, documentation, interconnection pathways and roof loads, and electrical requirements. Next the program will cover changes to duct insulation, hot water piping, duct leakage, whole-house mechanical ventilation and related MA amendments. Finally, the presenter will discuss the Energy Rating Index (ERI) compliance path and the 2015 Stretch Code.						
168-72	Understanding Spray Foam and How It Relates to Code	Spray Foam Distributors of New England	Jeff Bailey/Joe Drapeau/George Spanos	1.5	.15	
	<u>Learning Objectives:</u> The training will cover the properties of Spray Foam Insulation and how it relates to code in regards to Ignition and Thermal Barriers as well as the approved coatings/coverings . It also will explain the relation of the vapor and air barrier qualities and how that relates to Code. There will be a section going over good Foam versus Bad foam and how to identify the difference <u>General Description:</u> The training will cover the properties of Spray Foam Insulation and how it relates to code in regards to Ignition and Thermal Barriers as well as the approved coatings/coverings . It also will explain the relation of the vapor and air barrier qualities and how that relates to Code. There will be a					

		section going over good Foam versus Bad foam and how to identify the difference					
	174- 76	Disaster Response and the Building Professional	Centre Region Code Administration	Walter Schneider , Ph.D., PE, CFO, MCP, CBO		1.5	.15
		<p><u>Learning Objectives:</u> 1) Understand the type of extreme events that can affect a building after a natural disaster 2) Understand how the building professional assist in the mitigation of the impact of extreme events for occupants and first responders 3) Recognize basic structural failure types that can happen after a natural disaster 4) Recognize different communication methods used to mark buildings in adverse conditions to warn responders of potential dangers inside the structure</p> <p><u>General Description:</u> The presentation will introduce the building professional to the potential damage that can occur as a result of an extreme event on a building and how the building professional can positively affect the situation.</p>					
12:00 pm – 1:00 pm	CCA	BUFFET LUNCH – Please remember to have your Lunch Ticket with you!!!					
1:00 pm – 2:30 pm		Strategies & Techniques for Building Code Enforcement	Self	Robert F. Camacho		1.5	.15
	162-75	<p><u>Learning Objectives:</u> Demonstrate the practical application &amp; impact various Hard &amp; Soft Skills have on Building Code Enforcement in the real world. Avoiding Administrative Disasters &amp; the importance of having a "Policy &amp; Procedure" in place.</p> <p><u>General Description:</u> Identifies &amp; Analyzes the various Discipline Skills that are the basis for developing the Strategies &amp; Techniques required to professionally and affectively enforce the locally adopted building codes. I.e. Legal concepts, Leadership, Management Communicating etc. Looking at case studies of what went wrong &amp; why. Using the Model of "Four Phases of Public Safety in the Built Environment" to bring it all together. Additional Info will be posted on N.E.B.O.E.A. Web Page</p>					
		2015 IRC® Performing Residential Building Inspections	International Code Council	John Farinelli		1.5	.15
	163C	<p><u>Learning Objectives:</u> Upon completion, participants will be better able to: Explain the purpose of building foundation and final inspections. Describe the building inspection process in a step-by-step fashion. Determine if a given one- or two-family dwelling complies with the 2015 IRC. Complete inspection checklists.</p> <p><u>General Description:</u> This seminar provides building inspectors with fundamental knowledge necessary to administer and enforce applicable code requirements from the 2015 IRC, which apply to foundation and final residential building inspection. Specifically, the seminar provides participants with checklists that enable those performing foundation and final residential building inspections to determine whether the materials, design, construction, installation and location of building components comply with the code.</p>					
		Duct Sealing, Testing and Design	Mass Save (c/o PSD)	Mike Turns		1.5	.15
	165-69	<p><u>Learning Objectives:</u> The learning objectives are to what Manual D is, understanding advantages of proper duct design, code requirements related to duct design and leakage, documentation that can help in verifying duct testing, critical areas to be sealed in a duct system, manufacturer's installation instructions and how to conduct field inspections to verify that duct installation complies with the code.</p> <p><u>General Description:</u> According to the 2015-16 study on single-family residential homes in Massachusetts, over 90% of all homes studied had all or portion of duct systems in unconditioned space which means all these homes would require duct testing and portions outside conditioned space should be insulated. This course discusses code requirements for duct testing, prescriptive duct leakage requirements, duct insulation and sealing requirements. With a discussion on best practices in duct insulation, the presenter will discuss Manual D which is a process to design duct systems and required by code.</p>					
	168-72	Concrete - Back to basics (same program presented twice)	Tilcon Connecticut Inc.	Kevin Miller		1.5	.15
		<p><u>Learning Objectives:</u> How concrete is designed and produced, strength classes, admixtures, placement considerations, site inspections.</p> <p><u>General Description:</u> Informative session on concrete basics starting with developing concrete mix designs, jobsite problems, post placement defects followed by an open discussion on the need for residential testing and documentation.</p>					
	174-76	Multi-Residential Structures – Study of Initial Cost and Performance	Centre Region Code Administration	Walter Schneider , Ph.D., PE, CFO, MCP,		1.5	.15



				CBO					
		<p><u>Learning Objectives:</u> 1) Compare and contrast the typical construction configurations with regard to cost, durability, and performance. 2) Be educated about non-combustible versus combustible construction in multi-family residential construction.</p> <p><u>General Description:</u> The presenter will educate on the typical construction types and configurations commonly used in multi-family residential construction and their relative performance initially and over time. An explanation will be made of the construction cost model, which accurately evaluates the relative construction cost of a multi-family building using different materials including wood, steel, masonry, precast and ICF. This new study addresses the initial cost of construction a common multi-family residential building based on the 2015 IBC.</p>							
2:30 pm – 3:00 pm	CCA	BREAK							
3:00 pm – 4:30 pm	162-75	Strategies & Techniques for Building Code Enforcement	Self	Robert F. Camacho		1.5	.15		
		<p><u>Learning Objectives:</u> Demonstrate the practical application &amp; impact various Hard &amp; Soft Skills have on Building Code Enforcement in the real world. Avoiding Administrative Disasters &amp; the importance of having a "Policy &amp; Procedure" in place.</p> <p><u>General Description:</u> Identifies &amp; Analyzes the various Discipline Skills that are the basis for developing the Strategies &amp; Techniques required to professionally and affectively enforce the locally adopted building codes. I.e. Legal concepts, Leadership, Management Communicating etc. Looking at case studies of what went wrong &amp; why. Using the Model of "Four Phases of Public Safety in the Built Environment" to bring it all together. Additional Info will be posted on N.E.B.O.E.A. Web Page</p>							
	163C	2015 IRC® Performing Residential Building Inspections	International Code Council	John Farinelli		1.5	.15		
		<p><u>Learning Objectives:</u> Upon completion, participants will be better able to: Explain the purpose of building foundation and final inspections. Describe the building inspection process in a step-by-step fashion. Determine if a given one- or two-family dwelling complies with the 2015 IRC. Complete inspection checklists.</p> <p><u>General Description:</u> This seminar provides building inspectors with fundamental knowledge necessary to administer and enforce applicable code requirements from the 2015 IRC, which apply to foundation and final residential building inspection. Specifically, the seminar provides participants with checklists that enable those performing foundation and final residential building inspections to determine whether the materials, design, construction, installation and location of building components comply with the code.</p>							
	165-69							1.5	.15
		<p><u>Learning Objectives:</u></p> <p><u>General Description:</u></p>							
168-72							1.5	.15	
	<p><u>Learning Objectives:</u></p> <p><u>General Description:</u></p>								
174-76							1.5	.15	
	<p><u>Learning Objectives:</u></p> <p><u>General Description:</u></p>								
4:45 pm- 5:30pm	177	New England Building Officials Education Committee Meeting							

Adjourn to Amherst Room 10<sup>th</sup> floor for cocktails starting at 6:00 p.m. Social Hour starting at 6:30 p.m. Don't forget your ticket!!!

**WEDNESDAY**

**BREAKFAST 7:00 - 8:15 AM –CCA 1<sup>st</sup> Floor.**  
**Please remember to have your Breakfast Ticket with you!!!**

Time	Room	Class Title	Sponsor	Instructor	Course Number	Hrs.	ICC CEU's
8:30 am - 12:00 pm	904-08	ICC paper and pencil exams, prior registration required	I.C.C.	William Nash I.C.C. Govt. Relations Reg. Manager N.E.			
8:30 am-10:00am	162-75	Judith R. Dicine	State of Connecticut, Division of Criminal Justice	Judith R. Dicine		1.5	.15
		<u>Learning Objectives:</u> 1. Understand that the duly empowered code official in the U.S. is a "governmental official" and, similarly to police, is bound to administer and enforce code in accordance with the U.S. Constitution and the applicable state constitution, including on matters of right of entry. 2. Know and understand the law generally concerning the authority and obligations of a code official to obtain code compliance through administration and enforcement. 3. Recognize the orders available for building officials under the ICC International Building Code and review when and how each are used in enforcement. 4. Explain general procedure for referring a case to civil and criminal court and what occurs during criminal prosecution. <u>General Description:</u> This 180 minute educational session goes to the core of what safety code officials do in service of our communities daily - which is to keep the public safe through active code enforcement and administration. But what about the U.S. Constitution and an individual's rights to privacy and property? And what happens when an individual doesn't comply with an order to correct a violation? All actions by governmental officials must have a lawful basis. The public interest is only rightly served when both critical safeguards are met: constitutionality and code.					
	163C	2015 IBC Exit Systems	International Code Council	John Farinelli		1.5	.15
		<u>Learning Objectives:</u> Upon completion, participants will be better able to: Determine those means of egress components that are defined as exits. Identify where exit elements are required. Identify the specific exits established in the IBC. Understand the regulation of the exit discharge system. <u>General Description:</u> This seminar focuses on IBC Chapter 10 means of egress components that are defined and regulated as "exits." These components, defined in Chapter 2, are considered as high-level elements that provide a considerable degree of occupant protection within the means of egress system. The exit discharge provisions will also be discussed. Specific topics include: Exterior exit doors at the level of exit discharge. Interior exit stairways and ramps. Exit passageways. Horizontal exits. Exterior exit stairways and ramps. Exit discharge.					
	165-69	Ventilation for Tight Homes: Reducing Energy Waste, Improving IAQ (Part 1)	Mass Save (c/o PSD)	Mike Turns & John Puc		1.5	.15
<u>Learning Objectives:</u> The learning objectives are to understand what an air barrier is, common air barrier assemblies, best practices in air barrier and insulation installation and learning how to verify air barrier and insulation installation code compliance during plan review and field inspections. The learning objectives also include understanding code requirements for whole-house mechanical ventilation, understand pros and cons of different whole house ventilation strategies, and understanding documentation to verify mechanical ventilation rates. <u>General Description:</u> The installation of a continuous air and thermal barrier is perhaps the best and most cost-effective way to reduce energy waste and save money on utility bills; at the same time, important details are often missed. This course will be framed around the 2015 IECC Air Barrier and Insulation Installation criteria found in Table 402.4.1.1 with photos and graphics to illustrate noncompliant and compliant installation of critical details like attic penetrations, wall-to-ceiling transitions, rim joists, garage walls, knee walls, and tubs and showers on exterior walls. Installing and inspecting insulation to meet code and manufacturer requirements will also be discussed. The second part of the course will cover 2015 IECC, IRC, and Massachusetts amendments relating to whole-house mechanical ventilation system requirements. This will include when whole-house ventilation is required, how to calculate the minimum design airflow rate, and how to verify installed airflow rates. The presenter will also provide an overview of different ventilation systems – exhaust only, supply-only and balanced ventilation (including ERVs/HRVs) – along with pros and cons of each type of system.							
168-72	Navigating through Cold-Formed Steel Framing in the Codes	CFSEI - Adtek Engineering Inc.	Jeff Klaiman, P.E.		1.5	.15	
	<u>Learning Objectives:</u> After attendance participants will be able to identify appropriate AISI Cold-Formed Steel (CFS) Standards for use with the codes, identify appropriate tolerances for installation, recognize roles and responsibilities of principals on a project, and describe CFS standard nomenclature required for specifying and building with CFS. <u>General Description:</u> Cold-Formed Steel framing (CFSF) is nothing new and has been used as interior partitions and curtain walls for decades. What is relatively new is the use of CFSF as the main load bearing element for structures. Hotels, dormitories, assisted living facilities, to name just a few building						

		types, are commonly framed with CFS due to its high strength to weight ratio, design flexibility, and non-combustibility. Projects can go 10 stories + using CFSF as the main structural framing system. Presented by the Steel Framing Alliance, Cold-Formed Steel Engineers Institute and the American Iron and Steel Institute this program will provide you with the tools and resources necessary to conduct a CFS plan review, conduct an on-site inspection according to the ICC 2015 Codes. Know how to identify CFSF by the industry standard designators, the tolerances and the valuable resources available to assist you with your task.									1.5	.15
	174-76	<u>Learning Objectives:</u> <u>General Description:</u>										
10:00am-10:30 am	CCA	BREAK										
10:30am-12:00 pm	162-75	Judith R. Dicine	State of Connecticut, Division of Criminal Justice	Judith R. Dicine		1.5	.15	<u>Learning Objectives:</u> 1. Understand that the duly empowered code official in the U.S. is a "governmental official" and, similarly to police, is bound to administer and enforce code in accordance with the U.S. Constitution and the applicable state constitution, including on matters of right of entry. 2. Know and understand the law generally concerning the authority and obligations of a code official to obtain code compliance through administration and enforcement. 3. Recognize the orders available for building officials under the ICC International Building Code and review when and how each are used in enforcement. 4. Explain general procedure for referring a case to civil and criminal court and what occurs during criminal prosecution. <u>General Description:</u> This 180 minute educational session goes to the core of what safety code officials do in service of our communities daily - which is to keep the public safe through active code enforcement and administration. But what about the U.S. Constitution and an individual's rights to privacy and property? And what happens when an individual doesn't comply with an order to correct a violation? All actions by governmental officials must have a lawful basis. The public interest is only rightly served when both critical safeguards are met: constitutionality and code.				
	163C	2015 IBC Exit Systems	International Code Council	John Farinelli		1.5	.15	<u>Learning Objectives:</u> Upon completion, participants will be better able to: Determine those means of egress components that are defined as exits. Identify where exit elements are required. Identify the specific exits established in the IBC. Understand the regulation of the exit discharge system. <u>General Description:</u> This seminar focuses on IBC Chapter 10 means of egress components that are defined and regulated as "exits." These components, defined in Chapter 2, are considered as high-level elements that provide a considerable degree of occupant protection within the means of egress system. The exit discharge provisions will also be discussed. Specific topics include: Exterior exit doors at the level of exit discharge. Interior exit stairways and ramps. Exit passageways. Horizontal exits. Exterior exit stairways and ramps. Exit discharge.				
	165-69	Ventilation for Tight Homes: Reducing Energy Waste, Improving IAQ (Part 2)	Mass Save (c/o PSD)	Mike Turns & John Puc		1.5	.15	<u>Learning Objectives:</u> The learning objectives are to understand what an air barrier is, common air barrier assemblies, best practices in air barrier and insulation installation and learning how to verify air barrier and insulation installation code compliance during plan review and field inspections. The learning objectives also include understanding code requirements for whole-house mechanical ventilation, understand pros and cons of different whole house ventilation strategies, and understanding documentation to verify mechanical ventilation rates. <u>General Description:</u> The installation of a continuous air and thermal barrier is perhaps the best and most cost-effective way to reduce energy waste and save money on utility bills; at the same time, important details are often missed. This course will be framed around the 2015 IECC Air Barrier and Insulation Installation criteria found in Table 402.4.1.1 with photos and graphics to illustrate noncompliant and compliant installation of critical details like attic penetrations, wall-to-ceiling transitions, rim joists, garage walls, knee walls, and tubs and showers on exterior walls. Installing and inspecting insulation to meet code and manufacturer requirements will also be discussed. The second part of the course will cover 2015 IECC, IRC, and Massachusetts amendments relating to whole-house mechanical ventilation system requirements. This will include when whole-house ventilation is required, how to calculate the minimum design airflow rate, and how to verify installed airflow rates. The presenter will also provide an overview of different ventilation systems – exhaust only, supply-only and balanced ventilation (including ERVs/HRVs) – along with pros and cons of each type of system.				
	168 -72	Navigating through Cold-Formed Steel Framing in the Codes	CFSEI - Adtek Engineering Inc.	Jeff Klaiman, P.E.		1.5	.15					

		<p><b>Learning Objectives:</b> After attendance participants will be able to identify appropriate AISI Cold-Formed Steel (CFS) Standards for use with the codes, identify appropriate tolerances for installation, recognize roles and responsibilities of principals on a project, and describe CFS standard nomenclature required for specifying and building with CFS.</p> <p><b>General Description:</b> Cold-Formed Steel framing (CFSF) is nothing new and has been used as interior partitions and curtain walls for decades. What is relatively new is the use of CFSF as the main load bearing element for structures. Hotels, dormitories, assisted living facilities, to name just a few building types, are commonly framed with CFS due to its high strength to weight ratio, design flexibility, and non-combustibility. Projects can go 10 stories + using CFSF as the main structural framing system. Presented by the Steel Framing Alliance, Cold-Formed Steel Engineers Institute and the American Iron and Steel Institute this program will provide you with the tools and resources necessary to conduct a CFS plan review, conduct an on-site inspection according to the ICC 2015 Codes. Know how to identify CFSF by the industry standard designators, the tolerances and the valuable resources available to assist you with your task.</p>						
	174 -76	Masonry Fireplace Design and Construction	Superior Clay Corporation	Dana Martini		1.5	.15	
		<p><b>Learning Objectives:</b> To understand the safety and code issues used in the design and construction of site built masonry fireplaces.</p> <p><b>General Description:</b> We will cover the basic physics involved with the design and construction of masonry fireplaces. As well as discussion of air requirements for the operation of masonry fireplaces within new construction science.</p>						
12:00pm-1:00 pm	CCA	BUFFET LUNCH Please remember to have your Lunch Ticket with you!!!						
1:00 pm - 3:00 pm	904-08	ICC paper and pencil exams, prior registration required	I.C.C.	William Nash I.C.C. Govt. Relations Reg. Manager N.E.				
1:00 pm - 2:30 pm	162-75					1.5	.15	
		<p><b>Learning Objectives:</b></p> <p><b>General Description:</b></p>						
	163C	2015 IBC Inspection of Fire-resistance-rated Floors, Ceilings and Roofs	International Code Council	John Farinelli		1.5	.15	
		<p><b>Learning Objectives:</b> Upon completion of this course participants will be better able to: Identify requirements of chapter 7 related to the construction and protection of rated horizontal assemblies. Describe the differences between floor, floor/ceiling and roof/ceiling assemblies. Describe the protection requirements for penetrations, joint systems, ducts and air transfer openings in each of the separate elements. Discuss test standards used to evaluate the assembly and protection systems and how those protection systems are limited or could be compromised if not installed as tested.</p> <p><b>General Description:</b> This course deals with the application of IBC Chapter 7 related to the construction and protection of rated horizontal assemblies. The topics covered include understanding the differences between floor, floor/ceiling and roof/ceiling assemblies, as well as the protection requirements for penetrations, joint systems, ducts and air transfer openings in each of the separate elements. Additional discussion will look at the test standards used to evaluate the assembly and protection systems and how those protection systems are limited or could be compromised if not installed as tested.</p>						
	165-69	Framing for Success - How to Avoid Callbacks	APA - The Engineered Wood Association	Robert Kuserk		1.5	.15	
		<p><b>Learning Objectives:</b> Understand how wind or seismic forces impact the roof, walls, floors, foundation, and connections of a structure; the concept of a continuous load path; and its importance in structural integrity.</p> <p><b>General Description:</b> Based on hundreds of job site reviews by APA - The Engineered Wood Association staff, we have identified the most common wood construction framing and sheathing challenges found in today's wood framed construction. This session will identify these typical areas of concern and provide practical solutions for avoiding them in future construction.</p>						
	168-72	The ADA Standards for Accessible Design	New England ADA Center	Stacy Hart		1.5	.15	

		<p><u>Learning Objectives:</u> 1. Know how the ADA Standards are organized. 2. Know design requirements for municipal, commercial and retail business. 3. Know the ADA requirement for older and historic building.</p> <p><u>General Description:</u> This workshop is an overview of the ADA Standards for Accessible Design, We will cover how the ADA Standards are organized; how much access is required when alterations occur; the scoping and technical design requirements for municipal, commercial and retail businesses; access requirements for older and historic buildings.</p>				
174-76	Designing for the Future	Icynene - Lapolla	Randy Nicklas		1.5	.15
	<p><u>Learning Objectives:</u> Understanding spray foams for building codes.</p> <p><u>General Description:</u> 1. Building science-heat, air and moisture flows. 2. Open and closed cells. 3. IBC/IRC/IECC 4. Ignition and thermal barriers.</p>					

2:30 pm - 3:00 pm	CCA	BREAK				
3:00 pm - 4:30 pm	162-75				1.5	.15
	163C	2015 IBC Inspection of Fire-resistance-rated Floors, Ceilings and Roofs	International Code Council	John Farinelli	1.5	.15
		<p><u>Learning Objectives:</u> Upon completion of this course participants will be better able to: Identify requirements of chapter 7 related to the construction and protection of rated horizontal assemblies. Describe the differences between floor, floor/ceiling and roof/ceiling assemblies. Describe the protection requirements for penetrations, joint systems, ducts and air transfer openings in each of the separate elements. Discuss test standards used to evaluate the assembly and protection systems and how those protection systems are limited or could be compromised if not installed as tested.</p> <p><u>General Description:</u> This course deals with the application of IBC Chapter 7 related to the construction and protection of rated horizontal assemblies. The topics covered include understanding the differences between floor, floor/ceiling and roof/ceiling assemblies, as well as the protection requirements for penetrations, joint systems, ducts and air transfer openings in each of the separate elements. Additional discussion will look at the test standards used to evaluate the assembly and protection systems and how those protection systems are limited or could be compromised if not installed as tested.</p>				
	165-69				1.5	.15
	168-72	The ADA Standards for Accessible Design	New England ADA Center	Stacy Hart		1.5
<p><u>Learning Objectives:</u> 1. Know how the ADA Standards are organized. 2. Know design requirements for municipal, commercial and retail business. 3. Know the ADA requirement for older and historic building.</p> <p><u>General Description:</u> This workshop is an overview of the ADA Standards for Accessible Design, We will cover how the ADA Standards are organized; how much access is required when alterations occur; the scoping and technical design requirements for municipal, commercial and retail businesses; access requirements for older and historic buildings.</p>						
174-76					1.5	.15
	<p><u>Learning Objectives:</u></p> <p><u>General Description:</u></p>					

**RESERVED**

Above Ceiling Inspections	4LEAF Inc.	Joseph Summers		1.5	.15
<p><u>Learning Objectives:</u> Identify key building elements that require inspections above the ceiling and review the code requirements and other standards that should be referenced during the above ceiling inspection process.</p> <p><u>General Description:</u> Will go over general items to look for in an above ceiling inspection prior to concealment. We will look at how all trades interact and will look at some of the common issues that tend to be overlooked. This program will include gypsum board ceilings and acoustical drop-in ceilings.</p>					

				1.5	.15

				1.5	.15

				1.5	.15

				1.5	.15
<p><u>Learning Objectives:</u></p> <p><u>General Description:</u></p>					

				1.5	.15
<p><u>Learning Objectives:</u></p> <p><u>General Description:</u></p>					

**AT 4:30 p.m. ADJOURN TO CCA FOR THE RAFFLE HELD AT 4:45 P.M.**

**1<sup>st</sup> PRIZE \$200.00 2<sup>nd</sup> PRIZE \$100.00 3<sup>rd</sup> PRIZE \$50.00**

**YOU MUST BE PRESENT TO WIN!!!**

**UMASS CERTIFICATES WILL BE DISTRIBUTED IN THE CCA AT 4:30 p.m.**

**YOU ARE RESPONSIBLE FOR OBTAINING YOUR CERTIFICATE!!**

**IF YOU ARE UNABLE TO PICK IT UP, MAKE ARRANGEMENTS WITH A FRIEND TO TAKE YOUR CERTIFICATE FOR YOU.  
STATE REPRESENTATIVES WILL GATHER ALL LEFT OVER CERTIFICATES AND WILL SEND THEM TO YOU UPON RECEIVING**

**A S.A.S.E. AND A \$5.00 CHECK MADE OUT TO NEBOEA.**

**NAMES AND PHONE NUMBERS WILL BE POSTED ON THE WHITE BOARD.**

**UMASS WILL NEITHER HAVE NOR ARE THEY AUTHORIZED TO MAKE DUPLICATES.**