Health Level Seven®, Inc.

April/May Working Group Meeting

April 29-May 4, 2007
Maritim Hotel & InterContinental Hotel
Cologne, Germany

Early Bird Registration Cutoff—March 26, 2007
Online Registration & Hotel Cutoff—April 1, 2007

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Online Registration & Hotel Cutoff—April 1, 2007

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HL7 Goes International, Again!

As we look forward to our second Working Group Meeting in Europe in as many years, I’m reminded of the success of the May 2005 meeting in Noordwijkerhout, the Netherlands. There was admittedly some anxiety over holding a meeting outside the United States, but it proved to be one of our better meetings from the perspective of both attendance and accomplishments.

Our meeting in San Diego in January produced several milestones for HL7, relevant to both enhancing and expanding our standards, and furthering our collaborative efforts with other SDOs. I’m sure by now you’ve seen the press releases addressing successful ballot of the Continuity of Care Document, an implementation of the ASTM Continuity of Care Record under the HL7 Clinical Document Architecture, a Version 3 standard for the exchange of documents. We also successfully concluded a final ballot on Version 2.6 of our venerable messaging standard.

I’m looking forward to continuing our efforts related to both Version 2 and our family of Version 3 standards in Cologne. I’m particularly enthusiastic about the increased participation of our Affiliates afforded by this wonderful venue. By the same token, if Noordwijkerhout was any indication, I’m expecting a large US contingent as well. Holding this meeting in Europe is also an indication of our commitment to HL7 as an international standards development organization.

Holding meetings outside the United States is yet another facet of our continuing move forward with the implementation of our strategic initiatives and transition to the new HL7. One of the observations made by the strategic initiatives task force was the need to better project an international image of HL7. These meetings not only fulfill that need, but also serve to facilitate the growth and visibility of our Affiliates. We now have 28 Affiliates, having ratified the petition from Romania at the January meeting, and the Affiliates Council is currently reviewing a petition from Austria.

Current plans call for one meeting a year to be held outside the US. Our 2008 Plenary and Working Group Meeting will be held in Vancouver, Canada. We’re planning on visiting our Asian Affiliates for the first time in 2009 and are currently exploring having a meeting in Kyoto, Japan. This is exciting news and bodes well for the continued success of HL7, both nationally and internationally. But for now, I hope all of you will be able to join us in Cologne and experience some wonderful Deutscher Gastfreundlichkeit, Fassbier, und Schnitzel while we continue to develop HL7, the international standard for healthcare data interchange.

Mit besten Grüßen,

Charles (Chuck) Meyer
Chair, HL7 Board of Directors
**Sunday, April 29**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>0900 – 1700</td>
<td>Affiliates Council Meeting</td>
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<tr>
<td>1345 – 1700</td>
<td>Modeling &amp; Methodology (MnM) Meeting</td>
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<tr>
<td>1500 – 1800</td>
<td>REGISTRATION</td>
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<tr>
<td>1530 – 1700</td>
<td>Infrastructure &amp; Messaging (InM) Meeting</td>
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<tr>
<td>1700 – 1745</td>
<td>First-Time Attendees’ Orientation – FREE TUTORIAL</td>
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<tr>
<td>1700 – 1800</td>
<td>National Library of Medicine (NLM) Steering Committee</td>
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<tr>
<td>1800 – 2100</td>
<td>Electronic Health Records Meeting</td>
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<tr>
<td>1800 – 2100</td>
<td>HL7 Tooling Collaborative Executive Board Meeting</td>
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<tr>
<td>1930 – 2130</td>
<td>HL7/CEN/ISO Meeting</td>
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**Monday, April 30**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>0730 – 1700</td>
<td>REGISTRATION</td>
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<tr>
<td>0700 – 0745</td>
<td>First-Time Attendees’ Orientation – FREE TUTORIAL</td>
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<tr>
<td>0800 – 0830</td>
<td>General Session – Announcements and Affiliates Council recap</td>
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<tr>
<td>0900 – 1700</td>
<td>Working Group Meetings</td>
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<tr>
<td>0900 – 1230</td>
<td>Version 2.5 Control Specialist Certification Review</td>
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<tr>
<td>0900 – 1230</td>
<td>Introduction to Vocabulary</td>
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<tr>
<td>1030 – 1100</td>
<td>Morning Break</td>
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<tr>
<td>1230 – 1330</td>
<td>Lunch – First-Time Attendees’ Q &amp; A reserved tables</td>
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<tr>
<td>1230 – 1330</td>
<td>Lunch – Co-Chair reserved tables</td>
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<tr>
<td>1230 – 1330</td>
<td>Organization Review Committee (ORC) Luncheon (Must Sign Up)</td>
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<tr>
<td>1345 – 1700</td>
<td>Introduction to Version 3, Part 2: Messaging</td>
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<tr>
<td>1345 – 1700</td>
<td>Clinical Statements</td>
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<tr>
<td>1500 – 1530</td>
<td>Afternoon Break</td>
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<tr>
<td>1530 – 1700</td>
<td>Understanding the Version 3 Ballot and Ballot Process – FREE TUTORIAL</td>
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<tr>
<td>1730 – 2200</td>
<td>Technical Steering Committee (TSC) Dinner/Meeting</td>
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**Tuesday, May 1**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>0700 – 0800</td>
<td>OCCR Meeting</td>
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<tr>
<td>0730 – 1700</td>
<td>REGISTRATION</td>
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<tr>
<td>0800 – 0830</td>
<td>General Session – Announcements and Technical Steering Committee Report</td>
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<tr>
<td>0900 – 1230</td>
<td>Version 3 XML ITS &amp; Data Types</td>
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<tr>
<td>0900 – 1230</td>
<td>Clinical Genomics</td>
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<tr>
<td>0900 – 1700</td>
<td>Working Group Meetings</td>
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<tr>
<td>1030 – 1100</td>
<td>Morning Break</td>
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<tr>
<td>1230 – 1330</td>
<td>Lunch – First-Time Attendees’ Q &amp; A reserved tables</td>
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<tr>
<td>1230 – 1330</td>
<td>Lunch – Co-Chair reserved tables</td>
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<tr>
<td>1230 – 1330</td>
<td>Implementation Luncheon (Must Sign Up)</td>
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<tr>
<td>1345 – 1700</td>
<td>Version 3 Message Wrappers &amp; Transport</td>
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<tr>
<td>1345 – 1700</td>
<td>Interface Project Lifecycles</td>
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<tr>
<td>1345 – 1700</td>
<td>TermInfo and SNOMED CT</td>
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<tr>
<td>1500 – 1530</td>
<td>Afternoon Break</td>
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**Tuesday, May 1 (continued)**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1530 – 2200</td>
<td>Board of Directors’ Meeting</td>
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**Wednesday, May 2**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>0730 – 1700</td>
<td>REGISTRATION</td>
</tr>
<tr>
<td>0800 – 0900</td>
<td>General Session – Announcements, Board of Directors’ Report, Sponsorship Awards and Membership Awards</td>
</tr>
<tr>
<td>0900 – 1230</td>
<td>CDA Introductory Tutorial</td>
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<tr>
<td>0900 – 1230</td>
<td>Eclipse: HL7 Version 3 Tooling Development</td>
</tr>
<tr>
<td>0900 – 1230</td>
<td>Version 3 Implementation Case Studies – FREE TUTORIAL</td>
</tr>
<tr>
<td>0900 – 1230</td>
<td>Requirements Analysis (Building a Domain Analysis Model) FREE TUTORIAL</td>
</tr>
<tr>
<td>0900 – 1700</td>
<td>Working Group Meetings</td>
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<tr>
<td>1030 – 1100</td>
<td>Morning Break</td>
</tr>
<tr>
<td>1230 – 1330</td>
<td>Lunch – Co-Chair reserved tables</td>
</tr>
<tr>
<td>1345 – 1700</td>
<td>CDA Advanced Tutorial</td>
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<tr>
<td>1345 – 1700</td>
<td>Processing HL7 XML with XSLT</td>
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<tr>
<td>1345 – 1700</td>
<td>Version 3 Implementation Case Studies – FREE TUTORIAL</td>
</tr>
<tr>
<td>1500 – 1530</td>
<td>Afternoon Break</td>
</tr>
<tr>
<td>1730 – 2100</td>
<td>HL7 Networking Reception – Rhine Cruise</td>
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**Thursday, May 3**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>0700 – 0745</td>
<td>Newly Elected Co-Chair Training – FREE TUTORIAL</td>
</tr>
<tr>
<td>0730 – 1700</td>
<td>REGISTRATION</td>
</tr>
<tr>
<td>0800 – 0830</td>
<td>General Session</td>
</tr>
<tr>
<td>0900 – 1230</td>
<td>Version 3 Messaging Implementation Part 2: Mechanics</td>
</tr>
<tr>
<td>0900 – 1230</td>
<td>CDA Specialist Certification Review</td>
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<tr>
<td>0900 – 1230</td>
<td>Service Oriented Architecture</td>
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<tr>
<td>0900 – 1700</td>
<td>Working Group Meetings</td>
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<tr>
<td>1030 – 1100</td>
<td>Morning Break</td>
</tr>
<tr>
<td>1230 – 1330</td>
<td>Lunch for Affiliate Chairs or their Designated Rep (Must sign up)</td>
</tr>
<tr>
<td>1230 – 1330</td>
<td>Lunch</td>
</tr>
<tr>
<td>1345 – 1700</td>
<td>Version 3 Specification Development Tools</td>
</tr>
<tr>
<td>1345 – 1700</td>
<td>Electronic Health Record</td>
</tr>
<tr>
<td>1500 – 1530</td>
<td>Afternoon Break</td>
</tr>
<tr>
<td>1730 – 1930</td>
<td>Version 2.5 Control Specialist Certification Test</td>
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<tr>
<td>1730 – 1930</td>
<td>CDA Specialist Certification Test</td>
</tr>
<tr>
<td>1730 – 2200</td>
<td>Modeling &amp; Methodology (MnM) Facilitators’ Roundtable</td>
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**Friday, May 4**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>0800 – 0830</td>
<td>No General Session</td>
</tr>
<tr>
<td>0800 – 1300</td>
<td>Staff will be on hand for questions</td>
</tr>
<tr>
<td>0900 – 1700</td>
<td>Working Group Meetings</td>
</tr>
<tr>
<td>1030 – 1100</td>
<td>Morning Break</td>
</tr>
<tr>
<td>1230 – 1330</td>
<td>Lunch</td>
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<tr>
<td>1500 – 1530</td>
<td>Afternoon Break</td>
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</tbody>
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Note: Tutorials appear in bold
Note: In compliance with our status as an ANSI-accredited standards developing organization, HL7 meetings are open.
General Information

“Early Bird” Rate Deadline
Early Bird registration, including payment, is required by March 26, 2007 to receive the discounted rates. Otherwise the full fee structure will apply. Consult the registration form (pages 21-22) for a schedule of meeting fees.

To Register
Please complete the registration form on pages 21-22 and mail it (along with a check payable to Health Level Seven in U.S. funds ONLY) to:

Health Level Seven
3300 Washtenaw Ave., Suite #227
Ann Arbor, MI 48104
USA

If paying by credit card, the registration may be faxed to:
+1 (734) 677-3128.

Online registration is also available via our website (www.HL7.org). For your convenience, you can pay via a credit card directly from the site or print the registration form and mail it along with payment. Advance registrations MUST include payment. No balance due will be accepted and registrations received without payment will not be processed until the time that payment is received. Registrations received with payment by the Early Bird deadline will receive the Early Bird discount. Registrations where payment is not received by then will require the full registration fee. Advance registrations will be accepted until April 1, 2007. After that time, registrations can only be made on-site. All on-site registrations require payment in full at the time of registration.

Cancellation Policy
Prepaid registrants who cancel prior to the Early Bird deadline will receive a full refund minus a $50 processing fee. After that time, no refunds will be made.

Tutorial Cancellation
The tutorial schedule is subject to change. A tutorial may be cancelled if expected registration numbers are not met. If a tutorial is cancelled, pre-registrants will be notified via email. The registrant can select another tutorial at that time, or a full refund of the tutorial fee will be made. However, registration fees will not be refunded.

Dress
The dress code will be casual for all HL7 functions. Layered clothing is advised, as room temperatures vary.

Meals
A full breakfast buffet is included free with your hotel registration. HL7 will not be providing a continental breakfast buffet on any day. At the Maritim, a full breakfast buffet will be served from 0630 until 1030 (on Sundays until 1200). The InterContinental serves an extended full breakfast during the week from 0630–1030, on Saturday from 0730–1100 and on Sunday from 0730–1200.

Refreshment breaks and lunches are included in the meeting registration fee and will be provided for all registered attendees Monday through Friday. Vegetarian and diabetic meals are available upon request. You must register for each day’s lunch on your registration form in order to receive lunch tickets.

Air Travel
To make arrangements, attendees can call Conlin Travel at +1 (800) 783-9559 or +1 (734) 677-0900. Be sure to mention Health Level Seven when calling.

Ground Transportation and Parking
The Maritim is approximately 20 km from the airport and the InterContinental is approximately 15 km from the Cologne Bonn Airport.

Taxi Costs
• Cologne Airport to InterContinental or Maritim: 25–30 €
• Cologne Train Station to InterContinental or Maritim: 7–10 €
• Düsseldorf Airport to InterContinental or Maritim: 100–110 €

By Plane and then Subway
Meeting attendees can also use the subway, but it is a bit complicated. The correct stop is called “Heumarkt” (not to be confused with “Neumarkt,” which is another subway stop). From the Cologne Bonn Airport guests need to take Subway S13 to station “Bahnhof Köln Messe Deutz” and then change into U1 (direction: Weiden) or U9 (direction: Sülz) until “Heumarkt.” The Maritim is located directly at the subway stop “Heumarkt.” The InterContinental is just a short walk of approximately 3 minutes from this stop. The cost of the subway from Cologne Airport to the hotels is 2,30 €.

By Train and then Subway
Meeting attendees may travel to Cologne by train. There are several different options. The last stop for all IC/ICE trains is the Cologne Main Train Station. Attendees may take either the IC or ICE (high speed) train from the Düsseldorf Airport for approximately 10-16 €. There is also an ICE connection from the Cologne Airport which costs 12 €.

Once attendees reach the Cologne Main Train Station, they must either take a taxi or the subway to reach the hotels. From the Cologne Main Train Station, attendees may choose either the U16, U17, U18 or U19 to “Neumarkt” and then change again to U1, U7, U8 or U9 to “Heumarkt” (= next stop). The Maritim is located directly at the subway stop “Heumarkt.” The InterContinental is just a short walk of approximately 3 minutes from this stop. The cost of the subway from the Cologne Main Train Station to “Heumarkt” is 1,40 € (a short distance ticket called “Kurzstrecke”).

Hotel Parking
• Parking at the InterContinental costs 2,50 € per hour / 22 € per day.
• At the Maritim parking costs 1,50 € per hour / 16 € per day.

Please Book Your Room at the HL7 Meeting Hotels
HL7 urges all meeting attendees to secure your hotel reservations at the HL7 Working Group Meeting Host Hotels. These hotels have been contracted to provide the best rate and service to our HL7 meeting attendees, including the vast number of meeting rooms that HL7 uses. In order to secure the required meeting space, HL7 has a contractual obligation to fill our sleeping room blocks. If you make reservations at a different hotel, HL7 risks falling short on its obligation, which translates to HL7 paying additional costs (penalties) to the hotels. Should this occur, HL7 will likely be forced to pass these costs onto our attendees through increased meeting registration fees. Therefore, to help avoid such fee increases, we urge you to book your hotel room at our host hotel. Thank you!


Avis Rent-A-Car
HL7 has secured special rates from Avis for this meeting. To take advantage of these rates, please call Avis at +1 (800) 331-1600, identify yourself as being with the Health Level Seven Group and provide the following Avis Meeting Rate Discount Number: D188914. The attendee must use the assigned meeting rate discount number and meet Avis rental requirements to receive the discount. Rates are available one week before and one week after the dates of the meeting. Should a lower qualifying rate become available, Avis will offer a five percent discount on that rate.

Hotel Information
HL7’s April/May Working Group Meeting will be held at the InterContinental Hotel and the Maritim Hotel. The Maritim is a comfortable four star business hotel located at the river banks of the Rhine. The InterContinental is a five star luxury modern designed hotel. The majority of the meetings will be held in the Maritim Hotel.

Maritim Hotel Köln
Heumarkt 20 * 50667 Köln
+49 221 202 70 phone
+49 221 280 611 1 fax
Info.res@maritim.de
www.maritim.de

InterContinental Hotel
Pipinstrasse 1 * 50667 Köln
+49 221 202 780 phone
+49 221 280 60 phone
+49 221 202 70 for the Maritim and +49 221 280 60 direct at +49 221 202 70 for the Maritim and +49 221 280 60 for the InterContinental and ask for reservations. Be sure to mention Health Level Seven to receive the discounted room rate of 139 € per night single or 165 € double occupancy at the Maritim and 179 € per night single or 199 € double occupancy at the InterContinental. Remember, space is limited, so reserve your room early. Discounted room rates are available only on reservations made before April 1, 2007. Room rates are subject to all applicable state and local taxes in effect at time of check in.

IMPORTANT NOTE ON HOTEL CANCELATION POLICY:
If you need to cancel your room reservation, please do so by March 24, 2007 at 6:00 pm Eastern Time. If you cancel your room after that date, or are a “no show”, your credit card will be charged 100% of your entire hotel stay reservation. Alternatively, to make your reservations please call the hotels directly at +49 221 202 70 for the Maritim and +49 221 280 60 for the InterContinental and ask for reservations. Be sure to mention Health Level Seven to receive the discounted room rate of 139 € per night single or 165 € double occupancy at the Maritim and 179 € per night single or 199 € double occupancy at the InterContinental. Remember, space is limited, so reserve your room early. Discounted room rates are available only on reservations made before April 1, 2007. Room rates are subject to all applicable state and local taxes in effect at time of check in.

IMPORTANT NOTE ON HOTEL CANCELATION POLICY:
If you need to cancel your room reservation, please do so by March 24, 2007 at 6:00 pm Eastern Time. If you cancel your room after that date, or are a “no show”, your credit card will be charged 100% of your entire hotel stay reservation.

HL7 Networking Reception—Rhine Cruise
The Wednesday Networking Reception has been replaced with a “German Evening” cruise on the Rhine. The MS STOLZENFELS is one of the larger passenger ships on the Rhine, with three salons, two decks, an open air deck, several bars, dance floor and wintergarden. On board you can celebrate in great style. Views include magnificent scenery, picturesque castles and fertile vineyards. Enjoy the most beautiful areas on the Rhine from on board the ship. The cruise will offer a buffet featuring traditional German foods, beer, wine, and soft drinks. There will be a cost of $50 (US) per person to attend. Register today for this exciting event! There are only 400 spaces available, so seating is limited. Act now to reserve your space!

IMPORTANT NOTE: If you plan to attend the networking reception ship cruise, please be sure to check the appropriate box on the registration form (page 21) and indicate the number that will be attending.

What is a Working Group Meeting?

HL7 working group meetings are held three times per year at varying locations. These working group meetings serve two important purposes: 1) They give the HL7 technical committees and special interest groups a chance to meet face-to-face to work on the standards; 2) They provide an invaluable educational resource for the healthcare IT community.

Standards Development
HL7 has more than 40 technical committees (TCs) and special interest groups (SIGs) dedicated to specialized areas of interest such as Orders and Observations and Electronic Health Records. These technical committees and special interest groups are directly responsible for the content of the standards and spend much of their time at the working group meetings hard at work on standards development. Attending a TC or SIG meeting can be a great way to get a handle on what is going on in a particular area, and everyone attending an HL7 working group meeting is invited to attend any of the TC or SIG meetings.

Please see pages 18-20 for a complete schedule of meeting times throughout the week.

Educational Sessions
This working group meeting will offer numerous educational opportunities. Sessions will cover a full range of HL7-specific topics such as Version 2.x Implementation, Version 3, and the Clinical Document Architecture (CDA) among others. Educational sessions also branch out to cover general interest industry topics such as the Electronic Health Record, XML and Vocabulary Terminology. For a full listing of course descriptions, please see pages 6-14.
**Newly Updated Education Tracks**

HL7 has organized its courses into four tracks to make it easier to choose the educational offerings that are right for you:

- Track 1 – Version 2 Core
- Track 2 – Version 3 Core
- Track 3 – HL7 Special Topics
- Track 4 – Information Forums on HL7 Processes

**Track 1 – Version 2 Core**

HL7 Version 2 is the world’s most successful healthcare interoperability standard. Originally developed in the late 1980s, it has been continually enhanced over time. The introductory tutorials familiarize students with the Version 2 messaging standard and its core domain areas, while the implementation classes provide the “how to” basics of implementation. The track also includes courses that cover conformance and profiles and XML for Version 2.

**Track 2 – Version 3 Core**

HL7 Version 3 is HL7’s new flagship standard, adopted by major healthcare organizations, such as the NHS in England. This track is designed to give the attendee a thorough introduction to the Version 3 family of standards. It covers Version 3 fundamentals, the Reference Information Model, messaging, documents (Clinical Document Architecture), messaging infrastructure (wrappers, transport), and the XML Implementation Technology specification. It concludes with classes that address strategies for implementation.

**Track 3 – HL7 Special Topics**

The Special Topics track offers a variety of electives that describe important HL7 standards that may not fall in either the Version 2 or Version 3 family. These include HL7 standards for Electronic Health Records (EHR), visual integration (CCOW), Security and medical logic (Arden Syntax). The Special Topics track also offers advanced or specialized classes in Version 2 or Version 3 subjects which are not considered part of the basic core offerings. Examples include classes in Version 2 and Version 3 tooling and domain classes such as Clinical Genomics.

**Track 4 – Information Forums on HL7 Process**

*NEW TRACK*  *FREE*

This track provides tutorials designed to support new member involvement and help existing members become more effective in their participation in the HL7 standards development process. Tutorials included in this class include first timer’s orientation, introduction to HL7 organization and process, balloting procedures, the HL7 development framework, co-chair training, as well as case studies to facilitate early adoption.

*These tracks are only suggested course groupings. Feel free to choose whatever courses you feel are right for you from among the four tracks.*

**TUTORIALS**

**Track 1—Version 2 Core**

**M1—Version 2.5 Control Specialist Certification Review**

**Monday, April 30 / 0900 – 1230**

This tutorial reviews the message definition; and processing rules and data type definitions of the Control chapters of the HL7 Version 2.5 Standard. Upon completion of this tutorial, students will be better prepared to take the HL7 Version 2 Control Specialist Certification Test. Note that students are also expected to prepare for the exam by previous study of Chapter 2 (Control) and Chapter 2A (Data Types) of the HL7 Version 2.5 Standard.

**This Tutorial Will Benefit:**

- Anyone preparing for the HL7 Control Specialist Certification Test
- Interface analyst specialists and managers who need to understand the technical aspects of HL7 interfaces

**Faculty:**

*Mike Henderson:* Principal Consultant, Eastern Informatics

**TH21—Version 2.5 Control Specialist Certification Test**

**Thursday, May 3 / 1730 – 1930**

Health Level Seven is pleased to offer certification testing on HL7 Version 2.5 Chapter 2: Control. Certification testing is offered to those industry participants who are expected to have a working knowledge of the HL7 Messaging Standard.

Interface analysts, healthcare systems analysts, medical software programmers, and medical informatics faculty and students are all potential candidates.

The knowledge required to prepare for the exam can be obtained by participation in the HL7 working group meetings, by attending HL7 education sessions, by field work dealing with HL7 interfaces, or simply by self-study of the HL7 Standard Version 2.5 Chapter 2: Control.

**Track 2—Version 3 Core**

**M2—Introduction to Version 3, Part 1: Fundamentals**

**Monday, April 30 / 0900 – 1230**

Introduction to Version 3 is a rigorous introduction to HL7’s newly emerging standard. Included in the class is:

- General rationale for Version 3
- Explanation of Version 3’s two key concepts: messaging and documents (CDA)
- Overview of the Version 3 publication (ballot and standard)
- Essential concepts and terminology necessary to understand the static models of Version 3 used for both messages and documents

**This Tutorial Will Benefit:**

- Anyone interested in Version 3 implementation or standards development
- Anyone interested in more advanced Version 3 classes on messaging and CDA
Upon Completion of This Tutorial, the Student Will Have Obtained the Following:

- General understanding of the purpose, function, and format of Version 3 messaging and documents
- Rudimentary knowledge of the Reference Information Model (RIM) with a focus on Act, Role, Act Relationship, and Participation
- Rudimentary understanding of Version 3 Refined Message Information Models (RMIMs) and the refinement process
- Knowledge of scope, contents, and organization of the Version 3 publications

Prerequisites:

- Experience with healthcare interfacing would be helpful
- Experience or training with systems (development, integration, and/or implementation) required
- It is assumed that the student has some familiarity with the HL7 organization and its processes (balloting procedures, etc.)

Faculty:
Virginia Lorenzi: NewYork-Presbyterian Hospital

M4—Introduction to Version 3, Part 2: Messaging
Monday, April 30 / 1345 – 1700

Health Level Seven is famous as a provider of messaging standards. That is, providing the standard format and interaction specifications required for two disparate healthcare systems to communicate at the application level. This class builds on the morning Versions 3 introduction class by focusing on how messaging is addressed with the Version 3 standard. It reviews and expands on how Version 3 static models are used to represent messages. The Version 3 dynamic model, which is related to the interactions between systems, is introduced. It explains how message sets are documented within the standard. Finally, it explores how a simple message is wrapped, transmitted, and acknowledged.

Note that the class is based on the latest Version 3 ballot material. The latest Version 3 ballot publication can be accessed and downloaded from http://www.hl7.org/V3ballot/html/welcome/introduction/index.htm. Students may be interested in reviewing or downloading the ballot prior to class.

The Tutorial Will Benefit:

- Anyone who needs to read Version 3 messaging publications
- Anyone interested in Version 3 implementation or standards development
- Anyone interested in more advanced classes on Version 3

Upon Completion of This Tutorial, the Student Will Have Obtained the Following:

- Rudimentary understanding of Version 3 static and dynamic models and associated terminology as needed to support Version 3 messaging
- General understanding of the following specific dynamic model concepts: storyboard, application role, trigger event, interaction
- General understanding of the following static model components: DMIM, HMD, and Message Type
- Summary of all functional areas in the current Version 3 ballot publication and their status

- Ability to read a Version 3 functional domain

Prerequisites:

- Introduction to Version 3, Part 1 – Version 3 Fundamentals (NOTE: Messaging builds directly on the concepts covered in Part 1 and is designed to be a continuation of the morning class. Most attendees of Messaging also take the Intro class. Please contact the instructor if you would like to take Messaging without the Intro.)
- Note that it is assumed that the attendee has basic familiarity with Version 3 including a general understanding of the RIM and how to interpret the RMIMs. This is covered in the Introduction to Version 3, Part 1 class.

Faculty:
Virginia Lorenzi: NewYork-Presbyterian Hospital

T6—Version 3 XML ITS & Data Types
Tuesday, May 1 / 0900 – 1230

This tutorial provides an in-depth look at the Version 3 XML Implementable Technology Specification (ITS), covering both the Structures and Data Types portions of the ITS.

This Tutorial Will Benefit:

- Anyone with XML experience interested in Version 3 implementation
- Anyone with a specific interest in the Version 3 XML ITS

Upon Completion of This Tutorial, Students Will Know:

- How clinical and administrative information is represented in Version 3 Messages (Interactions) and as XML instances
- Basics of how to generate and process Version 3 XML instances
- An understanding of Version 3 Data Types, especially with respect to their XML implementation

Prerequisites:

- Basic knowledge of Version 3 concepts, including RIM (Act, Entity, Role, Participation), RMIM, HMD, Message Type, and Interaction
- Knowledge of the Extensible Markup Language (XML)
- Basic knowledge of XML Schema
- The Version 3-related prerequisites can be met by taking the Introduction to Version 3 tutorials (Part 1 and Part 2). The XML-related prerequisites can be met in many ways; for instance refer to the following XML related specifications:
  - Extensible Markup Language (XML) 1.0 (Second Edition) http://www.w3.org/TR/REC-xml
  - Namespaces in XML http://www.w3.org/TR/REC-xml
  - XML Schema Part 0: Primer: http://www.w3.org/TR/xmlschema-0/

Tools Needed:

- While a laptop is not required, there will be a paper-based workshop component to this tutorial and those with a laptop and any XML editor running on it might get more out of the hands-on exercises

Faculty:
Kai Heitmann, MD: HL7 Board of Directors, International Representative; HL7 Germany; University of Cologne (Germany), Heitmann Consulting & Services (The Netherlands)
T8—Version 3 Message Wrappers and Transport  
Tuesday, May 1 / 1345 – 1700

This tutorial covers two Version 3 infrastructural areas in detail: Message Wrappers & Transport Protocols (e.g. ebXML, SOAP, Web services, MLLP). It introduces how Version 3 messages are packaged, transmitted and acknowledged. It explains that Version 3 message payloads are wrapped in two Message Wrappers. Its main focus is on these wrappers and on the relationship between HL7 messages and transport protocols in general. The details of individual transport protocols will NOT be covered.

This Tutorial Will Benefit:

• Anyone interested in the implementation of Version 3 messages

Upon Completion of This Tutorial, Students Will Know:

• What Message Wrappers exist and how they should be used
• How Version 3 messages can be communicated using various Transport Protocols
• How communication servers and other intermediaries fit within the HL7 transport architecture

Prerequisites:

• Completion of the Introduction to Version 3 Tutorial (especially Part 2)
• Basic knowledge of the Version 3 Standard

Faculty:

Mark Tucker: Senior Programmer Analyst, Regenstrief Institute, Inc.

T9—Interface Project Lifecycles  
Tuesday, May 1 / 1345 – 1700

Interface project costs are largely determined by the costs of identifying and correcting errors made by one or more of the participants, at any stage of the lifecycle. This tutorial addresses the project lifecycle and focuses particularly on the early stages (scope, business process and conceptual design) which are independent of the syntax (Version 2.x, Version 3, CDA, etc) used for implementation. It is particularly important that both domain experts and implementers are in complete agreement about what is to be done. The business process may be documented using UML activity diagrams and the conceptual design of messages using UML class diagrams.

This Tutorial Will Benefit:

• Project managers, architects and others who have a start to finish view of interoperability projects

Upon Completion of This Tutorial, Students Will Know:

• The various stages of any interface project
• The importance of the early stages, including scope, business processes and conceptual design
• Why communication between users and developers is difficult and how to improve it
• How to use UML activity diagrams to document the business process
• How to use UML class diagrams to document the conceptual design of each message or service

Prerequisites:

• Some previous exposure to UML would be useful

Faculty:

Tim Benson: Co-Chair, HL7 Education Committee; HL7 UK; Abes Ltd, London

W11—Clinical Document Architecture (CDA) Introductory Tutorial  
Wednesday, May 2 / 0900 – 1230

The Clinical Document Architecture is HL7’s specification for standards-based exchange of clinical documents. CDA is based on the concept of scalable, incremental interoperability and uses Extensible Markup Language (XML), the HL7 Reference Information Model (RIM), and controlled terminology for structure and semantics. This tutorial presents the business case for CDA, its primary design principles, and an overview of the technical specification. The session describes CDA projects in the United States, Europe and Asia/Pacific; the tools available for CDA creation, management and distribution; and current work on CDA summary documents, including the Care Record Summary (CRS) and Continuity of Care Document (CCD).

This Tutorial Will Benefit:

• Healthcare providers and exchange network architects considering CDA implementation
• Product managers considering support for CDA
• Public health officials and those with structured information reporting requirements
• Implementers of all kinds beginning to work with CDA

Prerequisites:

• Introduction to Version 3 (Part 1) recommended

Faculty:

Liora Alschuler: Co-Editor, CDA; Co-Chair, HL7 Structured Documents TC; HL7 Board of Directors; Principal, Alschuler Associates, LLC

Rick Geimer (Co-Speaker): Senior Architect, Developer of the CDA Validator, Alschuler Associates, LLC

W13—Clinical Document Architecture (CDA) Advanced Tutorial  
Wednesday, May 2 / 1345 – 1700

CDA implementation requires understanding the CDA refinement of the RIM (the CDA RMIM), the Version 3 data types and how these combine with controlled vocabularies to form “clinical statements.” This tutorial reviews the principles of semantic interoperability with CDA and how these are reflected in the CDA model and implemented in the CDA schema. It reviews the CDA RMIM, schema and data types. In addition, the tutorial gives a detailed walkthrough of samples of CDA documents, coded using Clinical Statements.

This Tutorial Will Benefit:

• Those needing to learn more about CDA, Release Two—its derivation from the RIM and issues relevant to implementing CDA 2.0 solutions
• Implementers needing to work with CDA, and wanting a review of the details
Upon Completion of This Tutorial, Students Will Have:

- An overview of CDA's components
- Insight into the XML markup required to implement solutions
- A better understanding of the issues surrounding semantic interoperability using CDA

Prerequisites:

- Completion of the Introduction to the Clinical Document Architecture (CDA) tutorial recommended, but not required
- Basic knowledge of the Version 3 standards (as can be obtained from the Introduction to Version 3 tutorial series)

Faculty:
Calvin Beebe: Co-Editor, CDA; Co-Chair, HL7 Structured Documents TC, Technical Specialist, Information Services, Mayo Clinic—Rochester, MN
Robert Dolin, MD (Co-Speaker): HL7 Board of Directors; Co-Chair, HL7 Structured Documents TC; Physician, Kaiser Permanente

Wednesday, May 2 / 1345 – 1700

The use of HL7 Version 3 to implement interfaces within a particular application context can have hidden complexities. While Version 3 has been designed to reduce the amount of required site-specific negotiation, it is not possible to simply pull the message specification(s) “out of the box” and install it. This tutorial guides the student through the analysis process, and addresses issues necessary for building robust interface solutions.

It covers:

- Documentation of message specifications
- Implementation considerations for data types
- Managing vocabulary from the implementation perspective
- Procedures to address refinement and localization of the standard
- Tips and strategies for successful implementation

This class also provides a lead-in for Version 3 Implementation Part 2: Implementation Mechanics.

This Tutorial Will Benefit:

- Software architects responsible for integration projects
- Developers responsible for Version 3 implementation
- Technical specialists considering Version 3 adoption

Upon Completion of This Tutorial, Students Will Have:

- Understanding of multiple architectural approaches and techniques for Version 3 implementation
- Basic knowledge of the different technologies and tools available to implement HL7 Version 3 message specifications

Prerequisites:

- Introduction to Version 3 (Part 1 and Part 2)
- Version 3 XML ITS and Data Types
- Version 3 Wrappers and Transport
- Version 3 Implementation Part 1: Analysis and Specification

Faculty:
Roberto Ruggeri: Author and Editor, HL7 Web Services Profiles; Primary Contributor, HL7 Abstract Transport Specification; Senior Technical Strategist, Healthcare and Life Sciences, Microsoft Corporation

TH16—Version 3 Messaging Implementation, Part 2: Implementation Mechanics
Thursday, May 3 / 0900 – 1230

This class gives an overview of current technical strategies for implementing solutions based on the Version 3 specifications. How do we populate a message from our repository? What do we do when we receive a message? How do we process it? This tutorial will address implementation of Version 3 messaging systems from a practical point of view. Different architectural approaches will be examined and compared. The tutorial is designed to address the needs of the implementer/developer, bridging the gap between domain experts and developers. The tutorial will address techniques and design patterns for manipulating Version 3 messages: parsing and serialization, extended validation, communication, storage and retrieval, localization and extensions, and enablement of existing applications. The tutorial will also give a brief overview of the tools available to the HL7 community for implementing these solutions.

This Tutorial Will Benefit:

- System analysts or clinical application developers wanting in-depth understanding of the CDA Release 2.0 standard

Upon Completion of This Tutorial, Students Will Know:

- How to develop and carry out a plan for creating Version 3 interfaces
- How to read and write Version 3 message specifications
- How to design tips and strategies

Prerequisites:

- Participants are encouraged to read carefully the CDA Release 2.0 standard

TH17—CDA Specialist Certification Review
Thursday, May 3 / 0900 – 1230

Upon completion of this tutorial, students will be better prepared to take the CDA Certification Test.

This Tutorial Will Benefit:

- Anyone preparing for the CDA Certification Test

Prerequisites:

- In-depth understanding of the CDA Release 2.0 standard
• Introduction to Version 3 (Part 1) as well as the CDA
Introductory and Advanced tutorials are strongly
recommended

Faculty:
Calvin E. Beebe: Co-Editor, CDA; Co-Chair, HL7 Structured
Documents TC, Technical Specialist, Information Services,
Mayo Clinic—Rochester, MN

TH19—Version 3 Specification Development
Tools: Using HL7’s Version 3 Message
Development Tools
Thursday, May 3 / 1345 – 1700

This tutorial will provide a step-by-step understanding of
the tools that committee contributors and facilitators use to
develop and submit content for HL7 Version 3 ballots. It will
also cover tooling that committees and implementers can use to
better document their specifications, including the ability
to develop documentation targeted at different user groups.
This will be a “hands-on” session with participants “following
along” by running the tools on their own laptop computers.
Instructions on downloading and installing the necessary
tools will be provided to students in advance of the tutorial.
www.hl7.org/library/datamodel/V3Tooling/toolsIndex.htm

This Tutorial Will Benefit:
• Individuals who are supporting HL7 committees, related
project teams, and others involved in the documentation
of messaging standards, and the creation and
documentation of message designs

Scope:
The intent is to provide an overview of the tooling that
supports ballot tooling from “end-to-end” including:
• Tooling architecture, including the place and potential uses
of the HL7 Model Interchange Format (MIF)
• HL7 repositories—overview of contents and organization
(brief)
• RoseTree—Use as a RIM and Vocabulary Browser (brief)
• Publication database—including WYSIWYG editing with
XML Spy
• RMIM Design Tool in Visio— including design steps, use of
shadows, textual documentation, validation, saving designs
• Creation of HMD and MessageType—creating these
designs in RoseTree, once the RMIM is saved from Visio
• Creation of XML and Excel exports—exporting these
representations of an HMD with RoseTree, and formatting
of the Excel view
• Generation of XML schemas—creation of XML schemas
for the message designs using HL7—defines XSLT
processes. Time permitting; we will also cover likely (or
known) future changes to these tools

Prerequisites:
• This tutorial pre-supposes a detailed familiarity with Version
3 terminology. At a minimum, the prospective student
should have taken or have previous knowledge of the
material addressed in the Introduction to Version 3 tutorials.
Other courses on the Version 3 track, especially the Version 3
Implementation Part 1 class, are suggested as well. The
tutorial will not cover Version 3 terminology, the RIM,
representation of concepts in an RMIM, cloning, application
roles, etc. It is presumed that the participants are conversant
with these topics and simply need to know how to capture
the artifacts with the tools.

Faculty:
Lloyd McKenzie, PEng (Lead Speaker): Co-Chair, HL7 Modeling
and Methodology TC; Co-Chair, Tooling Committee; Modeling
and Methodology Facilitator-at-Large; Principal Consultant,
LM&A Consulting Ltd.

George (Woody) Beeler, PhD (Co-Speaker): Co-Chair, HL7
Modeling & Methodology TC; Principal, Beeler Consulting, LLC

TH22—CDA Specialist Certification Test
Thursday, May 3 / 1730 – 1930

Health Level Seven is pleased to offer certification testing on
HL7 CDA Release 2.0. Certification testing is offered to those
industry participants who are expected to have a working
knowledge of the CDA Release 2.0 standard. Healthcare
systems analysts, medical software programmers, and medical
informatics faculty and students are all potential candidates.
The knowledge required to prepare for the exam can be
obtained by attending HL7 education sessions, by field work
dealing with HL7 CDA based applications, or simply by self-
study of the HL7 CDA Release 2.0 Standard. Please refer to the
Study Guide on the HL7 Training and Certification page
for details on the content covered by the test.

Track 3—HL7 Special Topics

M3—Introduction to Vocabulary
Monday, April 30 / 0900 – 1230

Brief topics include vocabulary use in the CDA, templates
and information models, and Common Terminology
Services. Some of these topics are dealt with more deeply
and completely in the Vocabulary II tutorial.

This Tutorial Will Benefit:
• Those seeking an overview to terminology and LOINC
and SNOMED in particular

Upon Completion of This Tutorial, Students Will Know:
• The basic role and integration of terminologies into HL7
messages
• An understanding of the LOINC, SNOMED and other
clinical terminology systems as applied to HL7 messaging

Faculty:
Ted Klein, MS: Co-Chair, HL7 Vocabulary TC; Ted Klein
Consulting

M5—Clinical Statements
Monday, April 30 / 1345 – 1700

The HL7 Clinical Statement pattern is one of the keys to
interoperable communication of clinical information. The
Clinical Statement pattern is the semantic foundation for
structured clinical information in the Clinical Document
Architecture (Release 2) and in many Version 3 messages.
Development and refinement of the pattern is continuing in the Clinical Statements Project. This project has a close relationship with the HL7 TermInfo Project, which is addressing the gaps and overlaps between the clinical statement pattern and external terminology models, including SNOMED Clinical Terms.

The tutorial provides an introduction to the Clinical Statement pattern and the issues of semantic interoperability that it addresses. The first session describes the requirements and challenges posed by clinical semantic interoperability. It continues by summarizing the evolution of the Clinical Statement pattern and explaining how the pattern is expressed as part of HL7 Version 3. The second session explains the component parts of the Clinical Statement model and how these relate to HL7 specifications in specific domains. The tutorial concludes with a summary of open issues and a report on the progress towards finalizing Clinical Statements as a balloted HL7 standard.

**This Tutorial Will Benefit:**
- Anyone needing to understand how HL7 Version 3 supports communication of clinical information in ways that enable effective retrieval and processing

**Upon Completion of This Tutorial, Students Will Know:**
- The current state of the Clinical Statement pattern within HL7 Version 3 standards
- The key factors that determine the effectiveness of clinical communication
- Some of the issues related to use of coded terminologies in Clinical Statement patterns. Those interested in knowing more about this may also wish to attend the tutorial on HL7 TermInfo.

**Prerequisites:**
- It would be useful for students to have some prior knowledge of the HL7 Version 3 Reference Information Model (RIM) and development method. An understanding of clinical information and clinical terminologies would also be helpful but not essential.

**Faculty:**
Andrew Perry: Project leader, HL7 Clinical Statements Project; Senior Associate Consultant, The Clinical Information Consultancy Ltd, Reading, England.

**T7—Clinical Genomics**
Tuesday, May 1 / 0900—1230

This tutorial provides an overview of the HL7 Version 3 Clinical Genomics Domain that includes the Genotype and the Pedigree Topics. We start with the Genotype Topic models (GeneticLocus and GeneticLoci) and describe the focal areas of sequencing, expression, and proteomic data. The main paradigm underlying the model’s design is “encapsulate & bubble-up” which will be explained in detail, illustrating how it is possible to use the HL7 models to encapsulate raw genomic data represented in bioinformatics markups and yet bubble-up the most clinically significant portions of that data into other HL7 objects and associate them with the patient’s observed clinical phenotypes as well as scientifically-known phenotypes.

We then describe the Pedigree Topic (the Family History model) that enables the exchange of a complete clinical genomics family history of a patient through the utilization of the core models in the Genotype Topic. Several experimental samples of the Clinical Genomics specifications will be briefly described.

**This Tutorial Will Benefit:**
- Clinical Genomics integration endeavors are emerging these days in attempt to bring into healthcare practice new discoveries in genomic research. These endeavors support the personalized medicine vision and anyone involved in an effort to realize that vision will benefit from this tutorial because standards that bridge the gap between bio and medical informatics are crucial to that end.

**Upon Completion of This Tutorial, Students Will Know:**
- Existing life sciences standard data formats
- Design principles of the Clinical Genomics specifications
- Technical aspects of the specifications (how it relates to the HL7 RIM)
- Experimental samples of the Clinical Genomics specifications

**Prerequisites:**
- HL7 Tutorial: Introduction to Version 3
- General Prerequisite: Basic understanding of core bioinformatics concepts such as locus, gene, allele, sequence, expression, and translation

**Faculty:**
Amnon Shabo (Shvo), PhD: Co-Chair & Facilitator, HL7 Clinical Genomics SIG; Co-Editor – CDA Release 2 and CCD Implementation Guide; Research Staff Member, IBM Research Lab in Haifa.

**T10—HL7 TermInfo & SNOMED CT**
Tuesday, May 1 / 1345 – 1700

The HL7 TermInfo Project is specifying standard guidelines for the interface between terminologies and HL7 information models. This tutorial looks at the way that both terminologies and information models contribute to meeting requirements for representing and communicating processable meaning (semantic interoperability). It outlines the relevant features of SNOMED CT before summarizing the gaps and overlaps between SNOMED CT and the HL7 Reference Information Model in terms of complete and ambiguous representation of meaning. The tutorial outlines the current guidance on these gaps and overlaps in the HL7 Draft Standard for Trial Use (DSTU) on “Using SNOMED CT in HL7 Version 3.” Many of the issues and guidelines discussed are also applicable to the use of other terminologies in HL7 specifications.

**This Tutorial Will Benefit:**
- Anyone interested in reproducible, processable communication of meaningful clinical information
- Anyone wishing to apply the HL7 TermInfo guidelines to work in an HL7 domain committee and practical implementation
Upon Completion of This Tutorial, Students Will Know:
- The main ways in which representation of meaning in information models, codes and terminologies may interact and overlap
- The key specific semantic properties of SNOMED CT
- The general principles that can be applied to different information models and terminologies to minimize ambiguity and ensure effective processable representation of meaningful statements
- The specific recommendations in the proposed DSTU on use of SNOMED CT in Version 3

Prerequisites:
- Attendees who are not familiar with HL7 Version 3 should attend the “Clinical Statements” or the “Introduction to Version 3” tutorial prior to this tutorial. Attendees without prior understanding of HL7 Vocabulary principles are recommended to attend the “Introduction to Vocabulary” Tutorial.

Faculty:
David Markwell: Past Chair, HL7 UK; Co-Editor, HL7 TermInfo project; Chair, SNOMED Concept Model Working Group; Principal Consultant, The Clinical Information Consultancy Ltd, Reading, England

W12—Eclipse: HL7 Version 3 Tooling Development

Wednesday, May 2 / 0900 – 1230

This tutorial offers an ideal introduction in to the Eclipse-based tooling being delivered by the HL7 Tooling Collaborative (HTC).

The Tutorial Covers the Following Areas:
- Background to the Eclipse development framework
- Background to the Eclipse Open Health Framework (OHF)
- Background to the HL7 Tooling Collaborative
- Overview of the existing HL7 Eclipse Tools
- Overview of how to develop Eclipse Plugins
- Details of how to assist the HL7 Tooling Collaborative

This Tutorial Will Benefit:
- Individuals who are interested in using Eclipse-based development tools

Upon Completion of This Tutorial the Student Will Know:
- The background to the development of the Eclipse development framework, OHF and HTC
- Details of the functionality of the current Eclipse-based tools for HL7
- Details of how to contribute to the HTC at an individual or organizational level

Prerequisites:
- Basic knowledge of Java is an advantage, though not essential
- Basic knowledge of HL7 Version 3 modeling is presumed

Faculty:
Richard Kavanagh: HL7 Tooling Collaborative; Development Manager, NHS Connecting for Health

W15—Processing HL7 XML with XSLT Formal Constraint Modeling

Wednesday, May 2 / 1345 – 1700

This tutorial offers an ideal introduction to the Extensible Stylesheet Language (XSL) and associated standards such as XSL Transformations (XSLT) and XML Path Language (XPath). Attendees will get a solid understanding of XSL transformation concepts, syntax and applications. The second part of this tutorial (hands-on) gives every participant the chance to explore the power of XSL by transforming CDA documents into presentation formats such as XHTML for viewing in an Internet browser. On-site demonstrators are available for questions and help.

This Tutorial Will Benefit:
- HL7 implementers and consultants without prior knowledge of XSL and XPath

Upon Completion of This Tutorial, Students Will Know:
- Concepts and techniques of XSL processing in a medical environment
- The XSL key standards: XSLT (Version 2.0) and XPath (Version 2.0)
- Other standards associated with XSL processing
- How to transform XML documents using XSL
- Applications needed to implement an XSL transformation environment

Prerequisites:
- Basic knowledge of XML and XML Schema
- Basic knowledge of XHTML is an advantage but is not essential
- Basic knowledge of CDA semantics is an advantage but is not essential

Tools Needed:
- A laptop to participate in the hands-on part
- Evaluation software will be provided prior to the event and on-site

Faculty:
Benjamin Jung: PhD, Project Manager eHealth, empirica GmbH, Bonn, Germany

TH18—Service Oriented Architecture in Healthcare IM/IT

Thursday, May 3 / 0900 – 1230

Service Oriented Architectures (SOAs) are a hot topic in the IT world, and form part of the technological foundation for many developers and architects coming to the healthcare industry. At the same time, IT professionals and CIOs already within the healthcare space see tremendous value in the application of SOA principles to core IT problems. This tutorial will discuss a working definition of SOA, ongoing efforts at SOA within the HL7 community, and the applicability of SOA to new and legacy enterprise healthcare applications.

This Tutorial Will Benefit:
- HL7 developers, IT professionals, CIOs, CTOs, business analysts
Upon Completion of This Tutorial, Students Will Know:
• The difference between SOAs and services
• The SOA Roadmap for HL7
• The difference between message systems and service systems
• The applicability of services and SOA to different healthcare implementations
• Ways to leverage ongoing standards work

Faculty:
John J. Koisch: Co-Chair, HL7 Services Oriented Architecture Special Interest Group; Senior SOA Architect, VHA

TH20—Electronic Health Record (EHR)
Thursday, May 3 / 1345 – 1700

This informative tutorial provides an in-depth look at the EHR-S Functional Model, which now includes conformance criteria, and was recently balloted to become a normative ANSI standard. The tutorial will also include related industry background information including a briefing on the standards initiatives of Certification Commission for Healthcare Information Technology (CCHIT) and Healthcare Information Technology Standards Panel (HITSP), as well as the status of on-going EHR TC projects like PHR, Glossary, Profiles and Interoperability Model.

This Tutorial Will Benefit:
• Those seeking information on functionality and standardization of Electronic Health Records
• This tutorial focuses on EHR-S functionality and will be helpful for those looking to implement EHR Systems, those wishing to evaluate EHR Systems, or those that have an interest in garnering a bit or EHR-S industry background information

Upon Completion of This Tutorial, Students Will Know:
• Background and status of the EHR-S Functional Model as an ANSI standard
• Options to use the Functional Model for conformance and care setting profiles
• Background and status on HL7 and industry projects supporting EHR standards

NOTE: This tutorial focuses on functionality, not interoperability. While interoperability is a component of functionality, this tutorial is primarily focused on core functionality and not systems integration. The EHR-S is a functional Standard and not a records/data standard.

Faculty:
Corey Spears: Integration Manager, Practice Partner

Track 4—Information Forums on HL7 Process

F1/F3—HL7 First-Time Attendee Orientation
– FREE TUTORIAL
Sunday, April 29 / 1700 – 1745
Monday April 30 / 0700 – 0745

HL7 will offer a special orientation session for first-time attendees. This 45-minute session will give those new to HL7 the lay of the land and help make sure they get the very most out of their first Working Group Meeting experience. The session will consist of a quick meeting “tour” and a question and answer session that will help attendees make informed choices and maximize their time at the meeting. The session will be offered twice during the meeting—one on Sunday evening and again on Monday morning.

Faculty:
Nancy Wilson-Ramon: Co-Chair, HL7 Process Improvement Committee, HL7 Electronic Services Committee

F2/F4—HL7 Organization and Process Orientation/Introduction
Sunday, April 29 / 1800 – 1930
Tuesday, May 1 / 0900 – 1030

This session provides a brief history of the HL7 Organization and answers the question “What is HL7?”. An overview of the current committee structure and content domains will be presented. Attendees will learn the formal committee process and protocol and how to effectively participate in the work of the committees. This tutorial has been added at the request of first time attendees seeking to gain deeper knowledge of the organization and its work processes.

Faculty:
John Quinn: HL7 Technical Committee Chair; Senior Executive, Accenture

F5—Understanding the Version 3 Ballot and the Ballot Process
Monday, April 30 / 1530 – 1700

This tutorial is designed to help new members to the HL7 organization community who are unfamiliar or have little understanding of HL7’s ballot cycles and the ballot process. Participants will have a chance to look at the ballot preview site, balloting desktop, and the ballot pools. Demonstration of how to submit a ballot, how to review ballot materials, and how to complete a ballot comment spreadsheet will be done. Participants will also gain understanding of what happens after submitting a negative ballot and the reconciliation process.

This Tutorial Will Benefit:
• Anyone interested in contributing to balloting, however have little or no understanding of it
• Anyone interested in the process of balloting
• Anyone interested in contributing to HL7 standards development

Upon completion of this tutorial, students will know:
• How to fill out the Ballot Comment Spreadsheet
• How to navigate Version 3 ballot materials
• How to vote on ballots
• Where to find Version 3 current and past ballot cycles
• What to expect after submitting a negative ballot

Prerequisites:
• It is recommended to attend the HL7 Organization and Process Orientation/Introduction tutorial before attending this tutorial.
TUTORIALS

Faculty:
Wendy Huang: HL7 Canada Secretariat, HL7 Canada; Standards Analyst, Canada Health Infoway

F6/F8—Version 3 Implementation Case Studies – FREE TUTORIAL
Wednesday, May 2 / 0900 – 1700

The first three quarters will cover a number of extended case studies from those with experience of implementing HL7 Version 3. The presenters will cover both the benefits of using HL7 Version 3 in their projects, challenges that they faced, and how they were overcome.

The case studies will be followed in the fourth quarter by a panel discussion where a number of implementers will answer questions that have been supplied in advance by those registered for the session, as well as taking questions on the day. The objective will be to expose how to get the most value out of using HL7 Version 3 today with reference to real examples.

This Tutorial Will Benefit:
• All who have active HL7 Version 3 implementations, or who are thinking of having implementations in the future

Upon Completion of This Tutorial, Students Will Know:
• What other implementers have done to make their projects work, and what they would have done earlier if they knew then what they know now

Prerequisites:
• Working knowledge of requirements analysis, UML, and modeling

Tools Needed:
• UML 2 tool. If the participants do not have a tool of choice, they may download an evaluation of Enterprise Architect (www.sparxsystems.com).

Faculty:
Ioana Singureanu: Co-Chair, HL7 Modeling and Methodology TC; Integration Architect, Eversolve, LLC/Veteran’s Health Administration

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For more information, please contact the HL7 Registration Center at: +1 (734) 677-3126 or email reginfo@HL7.org

F7—Requirements Analysis (Building a Domain Analysis Model) – FREE TUTORIAL
Wednesday, May 2 / 0900 – 1230

This workshop is intended to prepare all those involved in developing or implementing HL7 standards to the processes/methodology, notation, style guide, and tools required to document the business requirements.

The requirements analysis phase of a project is crucial to ensuring that project design meets the business requirements. In the case of HL7 methodology, this phase ensures that standard or project requirements are clear and sufficiently detailed to communicate business requirements to software engineers and integrators. The result of requirements analysis is Domain Analysis Model that describes the business processes that require interoperability, the system use cases for integration, the system operations, and the information that is exchanged between systems in order to support the integration requirements.

This Tutorial Will Benefit:
• Standard developers and standard implementers

Prerequisites:
• Interest in implementation

Faculty:
Charlie McCay: Chair, HL7 UK; Healthcare Interoperability Consultant, Ramsey Systems Ltd.

F9—Newly Elected Co-Chair Training – FREE TUTORIAL
Thursday, May 3 / 0700 – 0745

This session is for newly elected committee co-chairs. The purpose of the session is to introduce the Co-Chair handbook, review TSC and balloting procedures, share tips on managing your TC or SIG, provide a framework for common operation among all TC and SIGs, and general Q&A session.

Faculty:
Freida Hall: Secretary, HL7 Board of Directors; Health Information Architecture, Standards Architect, US Department of Veterans Affairs
John Quinn: HL7 Technical Committee Chair; Senior Executive, Accenture

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### Other Meetings

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**Disclaimer:** Meeting times are subject to change. Please check the bulletin board near the HL7 Registration Desk for updates each day.

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### Elections

The following HL7 Technical Committees and Special Interest Groups will conduct co-chair elections at this Working Group Meeting:

- Arden Syntax—electing two co-chairs
- Clinical Coordinating Committee—(new committee)—electing three co-chairs
- Clinical Decision Support—electing two co-chairs
- Clinical Genomics—electing one co-chair
- Clinical Guidelines—electing two co-chairs
- Conformance—electing one co-chair
- Financial Management—electing one co-chair
- Government Projects—electing one co-chair
- Imaging Integration—electing one co-chair
- Implementation Technology Specification (formerly XML)—electing two co-chairs
- Laboratory—electing one co-chair
- Modeling & Methodology—electing one co-chair
- Patient Administration—electing one co-chair
- Patient Care—electing one co-chair
- Pharmacy—electing one co-chair
- Services Oriented Architecture—electing two co-chairs
- Templates—electing two co-chairs
- Vocabulary—electing two new co-chairs
## Technical committees & Special Interest Groups

### Committee Meetings Only—No Joint Sessions Listed

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| **CDA Advanced Tutorial** | W13 | Beebe/Dolin | | | | | | | | | *
| **Version 3 Mesg Imp Part 1: Analysis & Specs** | W14 | Walker | | | | | | | | | *
| **Version 3 Mesg Imp Part 2: Mechanics** | TH16 | Ruggeri | | | | | | | | | *
| **CDA Specialist Certification Review** | TH17 | Beebe | | | | | | | | | *
| **Version 3 Specification Development Tools** | TH19 | McKenzie/Beeler | | | | | | | | | *
| **CDA Specialist Certification Test** | TH22 | Beebe | | | | | | | | | 1730–1930 |
| **Track 3 – Special Topics** | | | | | | | | | | | |
| **Introduction to Vocabulary** | M3 | Klein | | | | | | | | | *
| **Clinical Statements** | M5 | Perry | | | | | | | | | CANCELLED |
| **Clinical Genomics** | T7 | Shabo | | | | | | | | | CANCELLED |
| **TerminInfo and SNOMED CT** | T10 | Markwell | | | | | | | | | *
| **Eclipse: HL7 Version 3 Tooling Development** | W12 | Kavanagh | | | | | | | | | *
| **Processing HL7 XML with XSLT** | W15 | Jung | | | | | | | | | CANCELLED |
| **Service Oriented Architecture** | TH18 | Koisch | | | | | | | | | *
| **Electronic Health Record** | TH20 | Spears | | | | | | | | | *
| **Track 4 – Information Forums on HL7 Process – Free Tutorials** | | | | | | | | | | | |
| **First-Time Attendee Orientation** | F1/F3 | Wilson-Ramon | | | | | | | | | 1700–1745 0700–0745 |
| **HL7 Organization Process Orientation/Introduction** | F2/F4 | Quinn | | | | | | | | | 1800–1930 01
| **Understanding the V3 Ballot and Ballot Process** | F5 | Huang | | | | | | | | | 04
| **Version 3 Implementation Case Studies** | F6/F8 | McCoy | | | | | | | | | *
| **Requirements Analysis (Building a Domain Analysis Model)** | F7 | Singureanu | | | | | | | | | *
| **Newly Elected Co-Chair Training** | F9 | Hall/Quinn | | | | | | | | | 0700–0745 |

AM Sessions run from 0900 to 1230 unless otherwise noted. PM Sessions run from 1345 to 1700 unless otherwise noted.
REGISTRATION & TUTORIAL HANDOUT HOURS
Sunday 1500–1800 Registration & Tutorial Handouts
Monday–Thursday 0730–1700 Registration & Tutorial Handouts
Friday 0800–1300 Staff on Hand for Assistance

MEALS AND BREAKS
Monday–Friday
Beginning at
0630 Each Day Complimentary Buffet Breakfast
Provided at Each Hotel
Monday–Friday
1030–1100 Morning Break
Monday–Friday
1230–1330 Lunch
Monday–Friday
1500–1530 Afternoon Break

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GENERAL SESSION ROOM
Monday through Thursday, please plan to attend each morning’s general session for daily highlights, meeting announcements and changes.
Monday 0800–0830 Announcements
Affiliates Council Report
Tuesday 0800–0830 Announcements
TSC Meeting Report
Wednesday 0800–0900 Announcements
Board of Directors’ Report
Sponsorship Awards
Membership Awards
Thursday 0800–0830 Announcements

O t h e r  M e e t i n g s

AFFILIATES COUNCIL MEETING
Sunday 0900–1700 COMMITTEE MEETING
1230–1330 Lunch
Thursday 1230–1330 Lunch for Affiliate Chair or their designated Rep

ARCHITECTURAL REVIEW BOARD (ARB)
Wednesday 0900–1230 COMMITTEE MEETING

BOARD OF DIRECTORS’ MEETING
Tuesday 1530–2200 Meeting and Dinner

CLINICAL COORDINATION COMMITTEE
Thursday 0900–1700 COMMITTEE MEETING

EDUCATION COMMITTEE MEETING
Monday 1345–1700 COMMITTEE MEETING—to assign tutorials
Thursday 1345–1700 COMMITTEE MEETING

ELECTRONIC SERVICES COMMITTEE
Wednesday 1345–1700 COMMITTEE MEETING

FACILITATORS’ ROUNDTABLE
Thursday 1730–2200 MnM Facilitators’ Roundtable

FIRST TIME ATTENDEES’ MEETINGS
Sunday 1700–1745 Orientation Meeting
Monday 0700–0745 Orientation Meeting
Tuesday 1230–1330 Lunch Tables Reserved for Q & A
Tuesday 1230–1330 Lunch Tables Reserved for Q & A

HL7/CEN/ISO MEETING
Sunday 1930–2130 Meeting

HL7 NETWORKING RECEPTION
Wednesday 1730–2100 Rhine Cruise

HL7 TOOLING COLLABORATIVE MEETINGS
Sunday 1800–2100 Executive Board Meeting
Friday 1345–1700 HTC Project Directorate

IMPLEMENTATION COMMITTEE
Tuesday 1100–1230 COMMITTEE MEETING
Wednesday 1530–1700 Joint w/Conf
Thursday 0900–1030 COMMITTEE MEETING

INTERNATIONAL MENTORING COMMITTEE (IMC)
Wednesday 1530–1700 COMMITTEE MEETING
Thursday 1345–1700 COMMITTEE MEETING

IMPLEMENTATION LUNCHEON
Tuesday 1230–1330 Luncheon—Attendees MUST sign up at time of registration

MARKETING COMMITTEE MEETING
Monday 0900–1230 COMMITTEE MEETING

NATIONAL LIBRARY OF MEDICINE (NLM)
Sunday 1700–1800 Steering Committee Meeting

ORGANIZATION REVIEW COMMITTEE (ORC)
Monday 1230–1330 Luncheon Meeting

OUTREACH COMMITTEE FOR CLINICAL RESEARCH (OCCR)
Tuesday 0700–0800 COMMITTEE MEETING

PROCESS IMPROVEMENT COMMITTEE (PIC)
Thursday 0900–1230 COMMITTEE MEETING

PUBLISHING COMMITTEE
Wednesday 0900–1230 V3—MEETING
Thursday 1345–1700 V2—MEETING

TOOLING COMMITTEE
Tuesday 0900–1230 COMMITTEE MEETING
1530–1700 Joint w/MnM
Thursday 0900–1230 COMMITTEE MEETING

TSC CO-CHAIR MEETINGS
Monday–Wednesday 1230–1330 Lunch tables reserved for Co-Chairs
Monday 1730–2200 Dinner/Meeting
(Open Meeting, however open for dinner ONLY to TSC Co-Chairs. Co-Chairs you MUST register if you wish to attend the dinner meeting)
Thursday 0700–0745 Newly elected Co-Chair Training

Meeting times and locations are subject to change.
NOTE: In compliance with our status as an ANSI-accredited standards development organization, anyone may register to attend HL7 meetings.

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<th>Technical Committee (TC) &amp; Special Interest Group (SIG) Meetings</th>
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<td><strong>ANATOMIC PATHOLOGY SIG (AP)</strong></td>
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<td>Monday 1345–1700 COMMITTEE MEETING</td>
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<td>Wednesday 1530–1700 Joint w/Lab</td>
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<td>Wednesday 1345–1700 COMMITTEE MEETING</td>
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<td><strong>ARDEN SYNTAX SIG (AS)</strong></td>
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<td>Tuesday 0900–1700 COMMITTEE MEETING</td>
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<td><strong>ATTACHMENTS SIG</strong></td>
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<td>Monday–Wednesday 0900–1700 COMMITTEE MEETING</td>
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<td>Thursday 0900–1230 COMMITTEE MEETING</td>
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<td><strong>CARDIOLOGY SIG (Card)</strong></td>
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<td>Friday 0900–1230 COMMITTEE MEETING</td>
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<td><strong>CLINICAL COORDINATION COMMITTEE (CCC)</strong></td>
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<td>Thursday 0900–1700 COMMITTEE MEETING</td>
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<td><strong>CLINICAL DECISION SUPPORT TC (CDS)</strong></td>
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<td>Monday 1530–1700 Joint w/O&amp;O, PC</td>
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<td>Wednesday 0900–1700 COMMITTEE MEETING</td>
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<td><strong>CLINICAL GENOMICS SIG [Clin Gen]</strong></td>
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<td>1345–1500 Joint w/O&amp;O</td>
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<td>1530–1700 Joint w/RCRIM</td>
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<td>Thursday 0900–1030 Joint w/O&amp;O</td>
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<td>1100–1700 COMMITTEE MEETING</td>
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<td><strong>CLINICAL GUIDELINES SIG [CG]</strong></td>
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<td>Thursday 0900–1700 COMMITTEE MEETING</td>
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<td><strong>COMMUNITY BASED COLLABORATIVE CARE SIG (CBCC)</strong></td>
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<td>Wednesday 0900–1030 Joint w/PC, PHER</td>
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<td><strong>CONFORMANCE SIG [Conf]</strong></td>
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<td>1345–1500 Joint w/MnM</td>
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<td>1530–1700 Hosting: Implementation Committee</td>
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<td>Thursday 0900–1230 COMMITTEE MEETING</td>
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<td>1530–1700 Joint w/Voc</td>
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<td><strong>ELECTRONIC HEALTH RECORDS TC (EHR)</strong></td>
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<td>Sunday 1800–2100 COMMITTEE MEETING</td>
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<td>Monday–Tuesday 0900–1700 COMMITTEE MEETING</td>
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<td>Wednesday 0900–1030 Hosting: RCRIM, SD</td>
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<td>1530–1700 Hosting: Sec</td>
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<td>Thursday 0900–1230 COMMITTEE MEETING</td>
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<td><strong>EMERGENCY CARE SIG (EC)</strong></td>
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<td><strong>FINANCIAL MANAGEMENT TC (FM)</strong></td>
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<td>Monday–Friday 0900–1700 COMMITTEE MEETING</td>
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<td><strong>GOVERNMENT PROJECTS SIG (GP)</strong></td>
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<td>Tuesday 1530–1700 Hosting: PHER</td>
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<td><strong>HEALTH CARE DEVICES SIG (Dev)</strong></td>
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<td><strong>IMAGING INTEGRATION SIG (II)</strong></td>
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<td>Wednesday 1530–1700 Joint w/O&amp;O</td>
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<td><strong>IMPLEMENTATION TECHNOLOGY SPECIFICATION SIG (ITS)—Formerly XML</strong></td>
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<td>Tuesday 0900–1700 COMMITTEE MEETING</td>
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<td>Thursday 0900–1230 Joint w/InM</td>
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<td><strong>INFRASTRUCTURE &amp; MESSAGING TC (InM)</strong></td>
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<td>Sunday 1530–1700 Hosting: SOA</td>
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<td>Monday 0900–1230 COMMITTEE MEETING</td>
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<td><strong>LABORATORY SIG (Lab)</strong></td>
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<td>Monday 0900–1030 Joint w/O&amp;O, Pharm</td>
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<td>1100–1230 Joint w/O&amp;O</td>
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<td><strong>MODELING &amp; METHODOLOGY TC (MnM)</strong></td>
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<td>Monday 1100–1230 Hosting: SD</td>
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<td>1345–1500 Hosting: InM</td>
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<td>1530–1700 Hosting: Templates</td>
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<td>Tuesday 0900–1230 COMMITTEE MEETING</td>
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<td>1345–1500 Hosting: Conf</td>
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<td>1530–1700 Hosting: Tooling</td>
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<td>Wednesday 0900–1230 Hosting: Voc</td>
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<td><strong>ORDERS &amp; OBSERVATIONS TC (O&amp;O)</strong></td>
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<td>Monday 0900–1030 COMMITTEE MEETING</td>
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<td>1100–1230 Hosting: PC, PHER, PS, Pharm</td>
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<td>1530–1700 Hosting: PC, CDS</td>
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<td>Tuesday 0900–1030 Hosting: Lab, Pharm</td>
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<td>TC &amp; SIG Meetings</td>
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<td><strong>PATIENT ADMINISTRATION TC (PA)</strong></td>
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<td><strong>PATIENT CARE TC (PC)</strong></td>
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<td><strong>PEDIATRIC DATA STANDARDS SIG (PDS)</strong></td>
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<td><strong>SCHEDULING &amp; LOGISTICS TC (SL)</strong></td>
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<td><strong>SECURITY TC (Sec)</strong></td>
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<td><strong>SERVICES ORIENTED ARCHITECTURE SIG (SOA)</strong></td>
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<td><strong>STRUCTURED DOCUMENTS TC (SD)</strong></td>
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<td><strong>TEMPLATES SIG</strong></td>
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<td><strong>VOCABULARY TC (Voc)</strong></td>
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**DISCLAIMER:** Meeting times are subject to change. Please attend the daily General Sessions for room changes, meeting changes, additions, deletion notification and also check the bulletin board near the HL7 Registration Desk for updates each day.
**Meeting Registration Form**

### 1. Contact Information

End of day on March 26, 2007 is the deadline for Early Bird fees. Hotel reservations and all advance registrations must be received by end of day on April 1, 2007. After this date, registrations can ONLY be made on-site with payment.

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<th>Last Name</th>
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<th>Title/Position</th>
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Are you a member within the last 30 days?  

Emergency Contact

### 2. Survey & Information

I am a/an:  

- [ ] Voting Board Member of HL7, Inc.  
- [ ] Affiliate Chair  
- [ ] HL7 TC/SIG Co-Chair  
- [ ] Tutorial Speaker  
- [ ] First-Time WGM Attendee  
- [ ] Early Adopter  
- [ ] Facilitator — Vocabulary  
- [ ] Facilitator — MnM  
- [ ] Facilitator — Publishing

☐ If you require special assistance, please indicate: ____________________________

☐ I am a member of an HL7 International Affiliate, employee of an HL7 organizational member or member of another eligible organization (ADA, ASTM, IEEE, CDISC, DICOM, EHI, Medbiquitous, CEN, OMG, NCPDP, SNOMED, Wedi, or X12N) and eligible for the member rate. Please list affiliate or organization: ______________________

☐ I am an approved participant in the student program and eligible to receive  

☐ Discounted fees  

☐ Waived fees (appropriate forms have been completed and sent to HL7).

University attending: ______________________

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<th>Meal Requirements:</th>
<th>Vegetarian</th>
<th>Regular</th>
<th>Diabetic</th>
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<tbody>
<tr>
<td>Sunday</td>
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<tr>
<td>Monday – Friday</td>
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**Please indicate if you plan to attend any of these functions:**

- [ ] Affiliates Council (Sunday)  
- [ ] TSC Dinner Meeting (Monday)  
- [ ] ORC Lunch (Monday)  
- [ ] Implementation Committee Lunch (Tuesday)  
- [ ] Chair of International Affiliate or Designee Lunch (Thursday)  
- [ ] HL7 Board of Directors’ Meeting (Tuesday)  
- [ ] HL7 Networking Reception Cruise on the Rhine (Wednesday Evening)  

Indicate the number of people attending: _______________

Deadline for Discounted Rates: Payment must be received by March 26, 2007 to qualify for the "Early Bird" rate.

The full fee structure applies to all other registrations where payment is received after this date.

Cancellation/Refund Policy: Prepaid registrants who cancel prior to the Early Bird deadline will receive a full refund less a $50 processing fee. After this date, no refunds will be given for ANY reason.

Payment Policy: Registrations for the meeting on-site can only be paid for in US currency

### 3. Registration and Tutorial Fees:

You must register for either the ALL WEEK OPTION or the DAILY FEE in addition to any tutorials that you attend.

<table>
<thead>
<tr>
<th>Members</th>
<th>Non-Members</th>
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<tr>
<td>Before</td>
<td>After</td>
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<tr>
<td>3/26</td>
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<tr>
<th>Amount Due</th>
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<tbody>
<tr>
<td>$ ___________</td>
</tr>
</tbody>
</table>

Sunday Meeting Fee:

- [ ] $30  
- [ ] $30  
- [ ] $30  
- [ ] $30  

$ ___________  

Monday – Friday Option:  

Please register me for the entire week. (Please note that the Monday-Friday Option does not include the cost of tutorials. Please register separately for any tutorials you would like to attend.)

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<th>Amount Due</th>
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<tbody>
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</table>

Per Day Fees:

- [ ] $200/day  
- [ ] $260/day  
- [ ] $260/day  
- [ ] $325/day  

$ ___________  

Please register me for the following days: (Please note that daily fees do not include the cost of tutorials. Please register separately for any tutorials you would like to attend.)

- [ ] Monday  
- [ ] Tuesday  
- [ ] Wednesday  
- [ ] Thursday  
- [ ] Friday  

Indicate the number of people attending x fee: $ ___________  

Registrations sent by mail or fax will not be processed until payment is received. The “Early Bird” rate will not apply if payment is received after the cutoff date.

Registration Questions: Please call +1 (734) 677-3126 or e-mail reginfo@HL7.org. You will receive confirmation of registration by mail. If you have not received a confirmation of registration within two weeks after registration, please call HL7 Registration at +1 (734) 677-3126. Please bring your confirmation materials to the meeting with you.

**Mail/Overnight**

Health Level Seven  
3300 Washtenaw Ave., Suite 227  
Ann Arbor, MI 48108  
USA

**Fax** +1 (734) 677-3128  
**Online** www.HL7.org
Tutorial Fees: Please register me for the following tutorials:

(Please note that you must also register for the days you are taking tutorials.)

Check here if you will be having lunch at the hotel on Friday. We know that many of you travel on Friday. To assist the hotel in planning for the number of lunches to prepare for Friday, May 4, 2007, please let us know if you will be having lunch with us.

### SUNDAY—

- **Track 4 – Information Forum:** First-Time Attendee Orientation Session – **FREE TUTORIAL** (F1) — Must sign up to attend this tutorial (Please check the box.)
- **Track 4 – Information Forum:** HL7 Organization & Process Orientation – **FREE TUTORIAL** (F2) — Must sign up to attend this tutorial (Please check the box.)

### MONDAY—

**Morning Sessions**

- **Track 4 – Information Forum:** First-Time Attendee Orientation – **FREE TUTORIAL** (F3) — Must sign up to attend this tutorial (Please check the box.)
  - **Track 1 – Version 2 Core:** Certification Review (M1) $100
  - **Track 2 – Version 3:** Intro to Version 3 – Part 1: Fundamentals (M2) $100
  - **Track 3 – Special Topics:** Introduction to Vocabulary (M3) $100

**Afternoon Sessions**

- **Track 2 – Version 3:** Intro to Version 3 – Part 2: Messaging (M4) $100
- **Track 3 – Special Topics:** Clinical Statements (M5) $100

- **Track 4 – Information Forum:** Understanding the V3 Ballot & Process – **FREE TUTORIAL** (F5) — Must sign up to attend this tutorial (Please check the box.) (Tutorial meets Q4)

### TUESDAY—

**Morning Sessions**

- **Track 2 – Version 3:** Version 3 XML ITS & Data Types (T6) $100
- **Track 3 – Special Topics:** Clinical Genomics (T7) $100

**Afternoon Sessions**

- **Track 2 – Version 3:** Message Wrappers & Transport (T8) $100
- **Track 2 – Version 3:** Interface Project Lifecycles (T9) $100
- **Track 3 – Special Topics:** Terminology and SNOMED CT (T10) $100

### WEDNESDAY—

**Morning Sessions**

- **Track 2 – Version 3:** CDA Introductory Tutorial (W11) $100
- **Track 3 – Special Topics:** Eclipse: HL7 Version 3 Tooling Development (W12) $100

**Afternoon Sessions**

- **Track 2 – Version 3:** Message Imp Part 1: Analysis & Specs (W14) $100
- **Track 3 – Special Topics:** Processing HL7 XML with XSLT (W15) $100

**Track 4 – Information Forum:** Version 3 Implementation Case Studies – **FREE TUTORIAL** (F6) — Must sign up to attend this tutorial (Please check the box.)

**Track 4 – Information Forum:** Requirements Analysis – **FREE TUTORIAL** (F7) — Must sign up to attend this tutorial (Please check the box.)

### THURSDAY—

**Morning Sessions**

- **Track 2 – Version 3:** Message Imp Part 2: Mechanics (TH16) $100
- **Track 2 – Version 3:** CDA Specialist Certification Review (TH17) $100
- **Track 3 – Special Topics:** Service Oriented Architecture (TH18) $100

**Afternoon Sessions**

- **Track 2 – Version 3:** Specification Development Tools (TH19) $100
- **Track 3 – Special Topics:** Electronic Health Record (TH20) $100

**Evening Session**

- **Track 1 – Version 2 Core:** Version 2.5 Control Specialist Certification Test (TH21) $130
- **Track 2 – Version 3:** CDA Specialist Certification Test (Th22) $130

### 4. Payment Information

Payment must be included in order to process your registration. Method of Payment (U.S. Dollars, Drawn on U.S. Bank Only)

- **Check** (Please make payable to: Health Level Seven, Inc.)
- **Credit Card:**
  - [ ] Visa
  - [ ] Master Card
  - [ ] American Express
  - [ ] Diner’s Club

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<th>Name on Card</th>
<th>Signature</th>
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</table>

Total Amount Due $
Upcoming Working Group Meetings

Atlanta, GA

September 16 – 21, 2007
21st Annual Plenary & Working Group Meeting
Sheraton Atlanta Hotel

San Antonio, TX

January 13 - 18, 2008
Working Group Meeting
Hyatt Regency on the Riverwalk

Phoenix, AZ

May 4 – 9, 2008
Working Group Meeting
Pointe Hilton At Squaw Peak Resort
Cologne (Köln), Germany

Founded by Romans, Cologne is one of Germany’s oldest cities. It is also the nation’s fourth largest city with a population of around one million. Located on the Rhine River, Cologne is a vibrant city full of cultural and historical treasures that is a "must see" for tourists.

There is plenty to see and do in Cologne. There are an abundance of world-renowned museums and the city has an active art scene. The city has more than 30 museums and hundreds of galleries. In addition to its famous cathedral, you can visit numerous Roman historical monuments, such as the Römisch-Germanisches Museum, Weidener Grabkammer (a burial chamber), the Praetorium, and the Roman Tower. Many sights also date back to the medieval times, such as the Zeughaus, the Überstolzenhaus, the Gürzenich hall, the city gates, city hall, and several Romanesque churches. In addition, many of Cologne’s famous landmarks are modern structures such as the Köln Tower and Triangle, as well as the opera house, the arena, and Media Park.

Tourists in Cologne have many options when it comes to food and drink. The city has more than 3000 public houses, restaurants and breweries. Don’t miss the opportunity to try Cologne’s famous beer, Kölsch. There are twenty kinds of Kölsch and the breweries have public houses where fresh Kölsch is served. The most famous ones among them are Gaffel Haus in the old part of town and the Früh-Brauhaus near the cathedral.

While we are in Cologne, the city will be celebrating a music festival, known as the MusikTriennale Köln 2007. Be sure to attend this event which runs through May 20 and includes well over 100 events spread across 25 different venues throughout the city. The festival will feature symphony concerts, jazz sessions, organ improvisations, Peking operas, films, puppet theater, and much more.

Don’t Miss Wednesday Night’s Ship Cruise on the Rhine

HL7 Networking Reception—Rhine Cruise: The Wednesday Networking Reception has been replaced with a “German Evening” cruise on the Rhine. The MS STOLZENFELS is one of the larger passenger ships on the Rhine, with three salons, two decks, an open air deck, several bars, dance floor and wintergarden. On board you can celebrate in great style. Views include magnificent scenery, picturesque castles and fertile vineyards. Enjoy the most beautiful areas on the Rhine from on board the ship. The cruise will offer a full buffet dinner featuring traditional German foods, beer, wine and soft drinks.