

Minutes
AASHTO Technology Implementation Group
March 10-11, 2005
National Academy of Science
Washington, DC

Chairman Hoffman opened the meeting with welcoming greetings, with self-introductions taking place. Gary advised the TIG that Doug Rose, Maryland DOT, AASHTO Region I, had resigned. Gary reviewed the proposed agenda and requested additions and corrections.

Members Present: Gary Hoffman, Randy Iwasaki, Dave Huft, Rick Collins (for TX DOT), Len Sanderson, Byron Lord (Secretary)

Others Present: Tony Giancola (NACE Liaison), Art Dinitz (ARTBA/AGC/AASHTO Joint Committee Liaison) Doyt Bolling (LTAP Liaison), John McCracken, Neil Hawks, Ken Kobetsky, Jeremy Fissel, Paul Krugler, Bob Bryant

Members not in attendance: Paul Wells, Warren Sick, Harry Lee James, John Polasek, and John Rolf

Minutes:

The minutes from the Oct. and Jan. meeting were approved. The TIG discussed of the availability of 100% pooled SP&R funds as the States voluntary contribution to support the activities of the TIG. It was pointed out that if a pooled funds project were established a State would have to agree to manage the project. Randy Iwasaki to volunteered to follow up with his staff at Caltrans.

Review of action items:

All of the Action Items from the Oct. meeting have been addressed. As a result of discussions additional action items were identified. Need to recruit a new SCOH member from Region 1 to replace Doug Rose who has resigned for the TIG.

Budget Report:

Jeremy Fissel presented the current status of the TIG budget and anticipated funding needs for 2005. A handout was provided to TIG members. See Budget Update Bookmark for document.

Communications Task Force:

John McCracken presented the task force positions on the Recommendations on Communications prepared by Worth Assoc. for TIG. John McCracken led the TIG in a discussion of the steps outlined by Worth. Several topics were identified that need to get underway:

- Importance of taking advantage of AASHTO's communication tools.
- Need to develop communication pieces for each technology.

- Need to work with AASHTO.
- Need to get a comprehensive TIG communications plan.

A recommendation was made and adopted by the TIG to contract for support to assist the TIG in developing and executing a communications plan. The TIG instructed AASHTO Staff to solicit a proposal from Worth Associates for consideration at the next meeting. This would be funded out of the money set aside for Communication Plan. The task force was directed to develop a plan to identify how the TIG should manage the communications activities. See Communications Audit Bookmark for document.

Coordination ARTBA, AGC, AASHTO Joint Subcommittee on New Materials and Technologies:

Art Dinitz represented the Joint Subcommittee. He addressed ways to bring the TIG’s work forward with the Joint Committee. Suggestions included:

- Add industry to the TIG Lead State Team.
- Use industry to present the technologies from a how to use/ build/ deploy the technology. This would help to reduce fear for using new technologies.
- Through Paul Wells as the AASHTO link to the Joint Committee the TIG can request the support of the Joint Committee.

The TIG engaged in a discussion with Art regarding future opportunities for cooperation/ coordination. Art will work with Ken and Tommy Beatty to prepare a guidance package for the TIG on how to make application to the Joint Committee.

Reports on Technologies:

Accelerated Construction Technology Teams: Jim Sorenson provided a briefing on the progress of the TIG to date. Seventeen workshops have been presented. TIG has invested \$115,000 to date. Have almost 200 people in the peer groups. FHWA is looking to put out an implementation effort to institutionalize this process. FHWA will provide ongoing support and nourishment through the Resource Center or NPHQ, The TIG acknowledged the excellent support for this program. It was decided to support the ACTT Workshops with up to \$30,000 funding in 2005. The intent is to roll the program over to FHWA in Sept 2005.

Prefabricated Bridge Elements: The outstanding work of Mary Lou Ralls and the Lead State Team was acknowledged. The team held their last workshop in Oct. This activity has been transferred to FHWA. The Subcommittee on Structures has been asked to take up and continue the advancing this technology to Standard practice.

ITS in Work Zones: This program is still not underway. The proposal prepared required significant investment beyond the resources of the TIG. In Oct., the TIG proposed a strategy for this activity. The team is instructed to focus their activities to accomplish a work plan they can deliver. They need to identify technologies they are able to assemble adequate information on and that the team is able to deliver. This work plan needs to be completed and presented to the TIG with sufficient time for review prior to the next meeting. The TIG needs to appoint a new liaison to this team to replace Doug Rose.

Air Voids Analyzer: Guide Specification in Subcommittee on Materials. A letter will be prepared from the TIG Chairman to the SOM Technical Section chairman encouraging their action on the guide specification.

Global Positioning Systems: Reduced budget to \$35,750. Presentations to National, Regional, and State Conferences. The team is working on a video. Eastern Federal Lands and Central Federal Lands will work with the team to fund the video.

Ground Penetrating Radar: This technology has been withdrawn until the issues regarding FCC restrictions can be resolved. This action needs to be reflected in the web site.

Low Cost Highway Railroad Warning System: There are field tests underway by NCHRP scheduled for completion March 31. Recommend that the technology continue to be tabled until the NCHRP work is completed. The web site should be revised to reflect the current status.

FRP repair of cracked overhead sign structure aluminum tri-trusses: Team has completed 3 on site demonstrations and 3 presentations at AASHTO Subcommittee Meetings. 3 demonstrations are being planned in spring/summer 2005. It was suggested that the Team measure effectiveness of the demonstrations by surveying those State visited.

Thermal Image Safety Screening using Infrared Inspection Technology: Gary indicated no progress in this area. Need to find a new team leader. FL DOT candidate declined. A team needs to be identified.

Road Safety Audits: A team has been formed. They met at TRB. There is a brochure in development. There has been strong participation by the team. It was suggested to get legal involvement and add Stewart Thompson, Utah LTAP, to the team.

Cable Median Barriers: Team members identified. The team is preparing to meet. North Carolina is the Lead State.

Multi-Agency Weigh-in-Motion (WIM) Project: Dave Huft working with N. Dakota. Attempting to form a lead state team.

High Definition Survey: Penn DOT Lead State working on brochure and case studies. Tri-fold color brochure in the next three months. NY, NC, & FL are interested in participating.

Disposition of Technologies not selected at last meeting

- Maintenance Decision Support System

Aimed at winter maintenance, program recommends optimum response to the technology. Limited testing validation was conducted in Ames Iowa in 2002-3
Technology not ready for full implementation. Dave Huft demonstrated software now

available. Revised software is to be tested in 2005. The TIG recommended the improved system be resubmitted in the next solicitation.

- Construction Analysis for Pavement Rehabilitation Software

Caltrans will resubmit this in the next round and address the questions posed by the TIG.

- Wireless Concrete Maturity Monitoring System

This technology does not rise to the priority to be addressed by the TIG.

Texas Transportation Institute Support to the TIG: A task order agreement has been established with TTI to provide support to the TIG based on Task Orders. Paul Krugler's services can be available to the TIG. Includes a provision for travel. Could address analysis of proposed technologies, refinement of work plans, etc.

Highways for LIFE

Byron Lord gave a power point presentation on FHWA's pilot program Highways for LIFE "Getting Started." He addressed the three vanguard technologies as well as opportunities for the TIG to partner with FHWA:

- Prefabricated Bridge Systems
- Road Safety Audits
- Making Work Zones work Better

It was agreed that the TIG should partner with the new FHWA technology teams. A joint press conference or "launching" of effort at the upcoming May AASHTO meeting was suggested. If agreed to by FHWA, this will provide visibility to effort. FHWA and the TIG should work together whenever possible to mass their resources to achieve their goals. There are opportunities to jointly fund activities such we have been doing with the ACTT initiative.

It was decided the Chairman would prepare a letter to FHWA inviting cooperation. We will invite FHWA technology teams to the next TIG meeting and include them as affiliate (or other terminology) members of the TIG. Future FHWA Highway for LIFE technology teams should be considered for identified TIG technology areas.

Process for Selection of Technologies:

Jeremy and David Huft presented a timeline for the key process elements in the selection of new technologies. The TIG adopted the schedule proposed by Jeremy and David. Jeremy provided a handout to the TIG, see Solicitation Timeline Bookmark.

Closing Out Technologies:

The TIG discussed the major elements we need to accomplish when closing out one of the focus technology elements:

- Need to have a continuum, someone to continue the efforts i.e.: SCOH subcommittee
- Need for a close out report (Need to identify what we put in the final report.)
- Need to permanently archive materials and documents; this may be accomplished with a website.
- We need to develop templates of what we are looking for as guidance to the teams

- Marketing piece/ report to the TIG

It was assigned to the Washington support group to prepare guidance for the TIG by the next meeting.

Action Items:

Action Item	Assigned to	Action Due
1. Follow up with staff at Caltrans to determine if they are willing to sponsor/manage a pooled funds study for the use of SP&R funding support for the TIG	Randy Iwasaki	Next meeting
2. Need to recruit a new SCOH member from Region 1 to replace Doug Rose who has resigned for the TIG.	Gary Hoffman Jeremy Fissel	Next meeting
3. Solicit a proposal from Worth Associates for support to assist the TIG in developing and executing a communications plan.	Jeremy Fissel	Next meeting
4. Develop a plan to identify how the TIG should manage the communications activities.	Communications Task Force	Next meeting
5. Provide support the ACTT Workshops with up to \$30,000 funding in 2005.	Jeremy Fissel	Next meeting
6. Develop a work plan for ITS in Workzones that the Lead state team can manage and deliver.	Lead State Team TIG Liaison	Next meeting
7. Appoint a new TIG Liaison to the ITS in Work Zones to replace Doug Rose who resigned from the TIG	Gary Hoffman	As soon as possible.
8. Prepare a letter from the TIG Chairman to the SOM Technical Section chairman encouraging their action on the guide specification.	Jeremy Fissel Gary Hoffman	As soon as possible
9. Update TIG website to reflect actions on GPR and Low Cost RR Crossing Warning Systems	Jeremy Fissel	As soon as possible
10. Need to work up a closeout plan for FRP repair of cracked overhead sign structure aluminum tri-trusses: with NY DOT.	Jeremy Fissel Paul Wells	Next meeting
11. Need to find a new team leader for Thermal Image Safety Screening using Infrared Inspection Technology Lead State Team and a team needs to be identified.	Jeremy Fissel Gary Hoffman	As soon as possible
12. Add Stewart Thompson, Utah LTAP, to the Road Safety Audits team. Recommended getting Legal involvement.	Jeremy Fissel Anthony Giancola	As soon as possible
13. Prepare a letter to FHWA inviting cooperation between the TIG and Highways for LIFE. Invite FHWA Getting Started teams to the next TIG meeting and include them as affiliate (or other terminology) members of the TIG.	Jeremy Fissel Gary Hoffman	As soon as possible
14. Prepare guidance on Closeout of Focus Areas for lead State Teams and TIG	Washington support group	Next meeting

Next Meeting:

Sept. 15 at the AASHTO meeting Nashville, TN before the AASHTO annual meeting.

TIG Program Reserve as of January 31, 2005
\$580,464

Focus Technologies	Initial Approved Budget	Budget revised date	Revised Budget	Actual remaining (expected invoice) March 2005	Allocated to Workplan	Remaining after work plan allocation	Returned funds in 2004/2005	Additional Info
PBE	\$180,000	Sep-03	\$127,680	\$30,000	YES	\$0	\$0	Last workshop held in Sept04. \$ still owed to MO workshop. TIG not invoiced
ACTT	\$100,000	Mar-04	\$115,000	\$30,202	YES	\$0	\$0	remain'g to be used for UT WkShp, OK workshop 9/04 expenses not submitted
ITS in Workzones	\$100,000	Nov-04	\$12,000	\$12,000	YES	\$0	\$62,000	TIG acct updated for coop agreement
AVA	\$50,000	Mar-05	\$32,377	\$5,000	YES	\$0	\$17,623	1 Workplan item left- draft spec to SOM resubmitted
GPR	\$72,000	Mar-04	\$10,000	\$7,240	NO	\$7,240	\$0	no work plan submitted, Drop add remainig funds to TIG?
GPS	\$113,000	Dec-04	\$75,500	\$64,857	YES	\$0	\$27,500	2004 report indicated a return of \$35,750, but totals did not indicate so
LowCost HRX	\$10,000			\$10,000	NO	\$10,000	\$0	Tabled by TIG pending further FRA actions, Drop add remaining funds to TIG?
FRP repair of OSS	\$65,250	Dec-04	\$28,670	\$20,400	YES	\$0	\$36,581	returned \$36,500
TISS	\$10,000			\$10,000	N/A	N/A	\$0	no work plan submitted, Move Lead State to FL?
Road Safety Audits	\$10,000			\$10,000	SOON	N/A		no official work plan submitted
Weigh In Motion	\$10,000			\$10,000	N/A	N/A		Team has not met
Cable Median Barrier	\$10,000			\$10,000	N/A	N/A		Team has not met
High Def Survey	\$5,000			\$5,000	YES	\$0		use for marketing only, no Lead State Team will be established
TOTAL:				\$224,699		\$17,240	\$143,704	

LOOKING FORWARD	
Program Reserve	\$580,464
Approved to current Focus Technologies, AASHTO not invoiced	\$224,699
3 new Focus Technologies expected budgets (\$75k each)	\$225,000
Hi-Def Surveys	\$5,000
ITS in WZ expected to request, Can we request from FHWA?	\$75,000
Oversight Committee per year	\$115,700
Remaining	-\$64,935

Nov 5, 2004. Review and comments on 17 recommendations by Worth Associates for TIG communication audit and plan.

Meeting at TRB; except for Warren Sick, Kansas DOT, by telephone, Neil Hawks and Linda Mason of TRB, Jeremy Fissel of AASHTO, John McCracken of FHWA. Separate feedback was later provided to John McCracken by Lynda South of VDOT, plus Monica Worth and Ellen Piazzo of Worth assoc.

The group acknowledged the fiscal shortfall that in part constrained the next steps to take.

TIG has long held, since its first meeting in December 2000 that the mission of TIG will be achieved if appropriate communication actions are taken. In March 2004 TIG members agreed to look into partnering with NPHQ in its communication management. In May 2004 TIG members established funding parameters for developing a communication strategy with the use of a consultant. Subsequently Worth Associates were hired to conduct an audit and draft a communication plan framework. Worth Associates presented 17 recommendations to TIG in November 2004. This led to the formation of the review group mentioned above.

The review strongly recommends that the communication focus of the communication be oriented toward the technology implementation in lieu of the solicitation.

The priority areas of action are

1. **Enhancement of the web page.**
This should be attempted by the AASHTO HQ staff and if not successful consider contracting out.
2. **Branding of TIG such that all TIG reports have a commonality in appearance and format/style.**
This will require professional marketing/communication consultant support.
3. **Develop an immediate communication strategy for TRB 2005.**
This can include our branding if ready and exhibiting at TRB.
4. **Develop set of objectives for a RFQ.**
The review group can perform this task.

As noted in the table below it was acknowledged that someone must be responsible for managing the consultant on a regular basis. NPHQ staff Bob Templeton may be of some assistance since he is already performing this duty for NPHQ.

RECOMMENDATION	FEASIBILITY	PRIORITY/timing	COMMENTS from Nov 5	COST
Recommendation #1: To expand the footprint of stakeholders reached by the solicitation message, distribute two TIG annual solicitation messages: one for the engineering/research community already on the list serve; the other repackaged as a news release and distributed to web, press, and editorial contacts at AASHTO, FHWA and TRB, by AGC's <i>Constructor</i> magazine, by ARTBA's <i>Transportation Builder</i> magazine, and selected trade and professional association publications (i.e. <i>ENR</i> , <i>Roads & Bridges</i> and <i>Civil Engineering</i>) that could reach prospective submitters.	This is a high potential for success. Previous experience at FHWA has proven the willingness of other non-gov publishers to carry our message.	High/start in 2005	This can be accomplished by an internal team. Focus should be on the new selections of technology not the solicitation. Too broad of solicitation could be overwhelming to us.	No additional cost beyond integrating into work plans.
Recommendation #2: To beef up outreach to local highway agencies and academic centers that influence technology transfer to meet the demands placed on local roads and bridges, send the TIG news release about the call for nominations to contacts for the Local Technical Assistance Program (LTAP) centers in each state and Puerto Rico, and centers serving American Indian Tribal Governments. The contact list, updated on September 9, 2004, is at	Good potential as long as State focus is not reduced in lieu of local priorities	High/Start in 2005	This too can be done with the new relationship recently formed with LTAP. Like no. 1 focus should be on the news not	No additional cost beyond integrating into work plan

http://www.ltapt2.org/centers/list.htm#LTAP/TTAP . Center Contacts are also included as an appendix to this audit.			should be on the news not solicitation.	
Recommendation # 3: Ask the AASHTO SCOQ Partnering Subcommittee to review and make recommendations for the current list of recipients of the annual solicitation e-mail message to determine if it's getting to the right audiences or how it should be expanded.	Successful implementation not expected,	Low/not recommended	This was deemed irrelevant to TIG. SCOQ has not been a party to TIG objectives.	No additional cost beyond integrating into work plan
Recommendation #4: Use a fee-based e-mail blast, tracking and monitoring service like Xpedite or MRLaunch to distribute the yearly solicitation for nominations, on which the TIG would be displayed as the "sender." These campaign-management services supply a detailed report on how many recipients opened the message, when, who they were, and which links they clicked on, all of which could give the TIG more insight into outreach trends and results. The cost of one e-mail launch for the TIG would be between \$150 and \$200.	NPHQ reports good success/ start in 2005 if cost are confirmed	Not a high priority /limited trial may be considered in 2005	Due to probable low cost a small trial may be warranted but not clear of tangible benefits. Some concern of being a nuisance or Spam.	Small cost of \$200 plus Additional analysis costs
Recommendation #5: Increase bookings of the TIG conference exhibit at AASHTO, FHWA, TRB, AGC and ARTBA conferences and meetings and others inside and outside government that focus on technology innovation; set a performance measure goal annually for exhibit space reservations. Where possible, have attending TIG members staff the exhibit during key hours.	Success is not guaranteed. It can offer high visibility.	Low priority/ 2005	Limit exhibits to subsidized venues, saving funds for higher priority.	\$20000-50000 plus exhibit staffing time and travel

Recommendation #6: Poll TIG panel members on the numbers of workshops and field demonstrations in which they participate, and the numbers of brochures, CDs and other TIG promotional materials distributed at these events. Use both as performance measures to help circumscribe the TIG footprint	This may be successful	High/2005	Collecting data may be helpful with appropriate analysis. Currently performance measures are lacking.	No additional cost beyond integrating into work plan
Recommendation #7: If feasible from a budgetary standpoint, where states incur significant costs to host a field demonstration, review on a case by case basis the possibility of reimbursing for some costs, and advise panels that the review procedure exists	This is already being done to extent possible	Low/asap	AASHTO policy on reimbursement needs clarification. These cost can be part f the work plan budget approved by TIG	unknown
Recommendation #8: Brief new panels about LTAP, the fact that regional LTAP engineers work with public works staff, engineering staff, tribal governments and elected officials, and how LTAP workshops could be effective information-sharing opportunities	Easily achieved with LTAP support	Medium priority	This is relative simple item once LTAP and TIG begin routine business collaboration.	No additional cost beyond integrating into work plan
Recommendation #9: Send a consistent flow of TIG news, information, photos/captions, and articles to AASHTO news channels and publication editorial contacts; request an AASHTO home page web link to the TIG page at least twice a year: at the kick-off of the annual call for nominations and when selections are announced.	Can be achieved with assigned accountability	High/ 2005	Linked to a time frame This may lead to some performance measures that sway additional voluntary contributions.	No additional cost beyond integrating into work plan
Recommendation #10: Quote AASHTO, FHWA and DOT leaders in TIG news releases, marketing materials, on the TIG web site, and in speech inserts for AASHTO, FHWA and DOT leaders.	This is a high potential for success.	Linked to no. 9	We need to be careful to avoid unintentional endorsements that result in negative reactions.	Cost of comm. support?
Recommendation #11: Revamp the TIG web site home page to include a short letter or message with photo from an AASHTO top leader, along with his/her photo, that welcomes visitors and highlights the TIG's contributions.	Easily achieved	High/2005	Deemed be the highest priority for 2005. AASHTO staff to take lead.	No additional cost beyond integrating into work plan
Recommendation #12: Expand communications outreach to trade and professional association publications that have not covered the TIG but which reach TIG stakeholders, including <i>ENR</i> at a minimum, but adding <i>Constructor</i> , <i>Transportation Builder</i> , <i>Better Roads</i> , Reed Construction Publications, and selected others if relatively simple and cost-efficient for the purposes of establishing the TIG brand and advancing the roadway program.	Not too different than no. 1	medium/2005	Similar to number one but focusing on the technology selected not solicitation.	No additional cost beyond integrating into work plan

<p>Recommendation #13: Create context, cooperation with TIG and competition among media outlets by inviting to an annual TIG editorial board the editors of the following for a briefing on the TIG's select technologies and trends: <i>Better Roads, Roads & Bridges, ENR</i>, Reed Construction Publications, AGC's <i>Constructor</i>, ARTBA's <i>Transportation Builder</i>, AASHTO Quarterly, <i>Focus, Public Roads, R&T Transporter</i>, TR News, TRB's <i>Ignition</i> and <i>TranScan, Washington Construction News</i>, and other engineering and construction journals. Alternatively, consider conducting the editorial board at an annual AASHTO event that attracts attendance by media.</p>	<p>This could d be accomplished with support from no. 14</p>	<p>low/2005</p>	<p>Not be confused with an editorial managing/ steering board but rather a group of peer publishers invited to</p>	<p>No additional cost beyond integrating into work plan</p>
<p>Recommendation #14: Hire a part time communications consultant/team to plan and implement a communications program and support the marketing plans of panels. The consultant would work with TIG to develop annual communications goals, along with related annual messages and themes, and would deliver supporting, branded electronic and print deliverables.</p>	<p>TIG has agreed to this in principle</p>	<p>High/2005</p>	<p>We need better info on capability of AASHTO comm.. staff to assist. We need a manager of communication to facilitate the comm. program.</p>	<p>TBD</p>
<p>Recommendation #15: Let new and existing panels know that a consultant is in place to provide expertise in developing focus technology marketing plans, and create a "marketing resources" page for the TIG web site.</p>	<p>This too has been agreed upon by TIG.</p>	<p>High/2005</p>	<p>Who will manage the consultant on a regular basis-not a full time but consistent basis see no. 14 comment.</p>	<p>No additional cost beyond integrating into work plan</p>
<p>Recommendation # 16: Have the communications consultant develop a proposal for TIG branding. The branding exercise would center on images and messages to be integrated into all communications and presentations using simple, consistent language that telegraphs the TIG's identity and mission.</p>	<p>This can be achieved via proper coordination of TIG members time with the consultant</p>	<p>High/2005</p>	<p>This was deemed as a second highest priority.</p>	<p>TBD</p>

<p>Recommendation #17: Worth Associates proposes a TIG communications plan that:</p> <ul style="list-style-type: none"> • develops annual communications goals, related annual message themes, and supporting points • incorporates the marketing tools and tactics that will closely support panels' marketing plans and expand the TIG footprint as outlined in this audit • defines the mechanisms and tools required for a sustained volume of high-quality content and products pumped out to those who use, redistribute, publish, and respond to it, including, on an annual basis: <ul style="list-style-type: none"> ○ the call for nominations for focus technologies ○ the winning focus technologies, with 300 dpi photos. (The availability and quality of photos can greatly influence the decision to publish by trade magazines.) • develops the ideal mix of trade and association publications and media to be reached by the TIG in the short and long terms, with a focus on those that reach key stakeholders • leverages TIG visibility at conferences, meetings and workshops • sets up an annual editorial board with key internal and external media • proposes TIG branding that will unify and distinguish all print and electronic materials, solicitations, exhibits, and web site content with a consistent look and theme. The branding should support an overarching theme flexibly enough to serve multiple "masters" (i.e., sub-audiences, materials, goals) • extends branding language to speech inserts for top AASHTO, FHWA and DOT leaders (and eventually lawmakers who serve on transportation committees and subcommittees) • improves the web site by: <ul style="list-style-type: none"> ○ integrating the TIG web site with AASHTO's site ○ increasing the numbers of stakeholder web sites, including LTAP's, that link to the TIG's web site ○ revising the site with images and messages that emerge from the branding exercise ○ adding a "marketing resources" page for panels that offers the expertise of the communications consultant, sample promotional materials, and experiences of previous panel members who developed marketing plans ○ adding a "latest news" page modeled after that of the Homeland Security Research & Technology page of the Department of Science and Technology Directorate (http://www.dhs.gov/dhspublic/theme_home5.jsp) • creates performance measures for the communications program, some of which can help measure the extent of technology transfer 	<p>This highly desirable and can be achieved through mutual agreement of the contract terms.</p>	<p>High/2005</p>	<p>A priority of activities was identified: Web improvements Branding of TIG TRB outreach in Jan 2005 Development of a set of objectives for a consultant.</p>	<p>TBD</p>
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January February March April May June July Aug Sept Oct Nov Dec

