



A Two-day Conference on
“Building a future for the Steam Locomotive”
30th Sep – 1st Oct 2017
Bury Transport Museum, Greater Manchester

Welcome: Welcome to AST’s second Autumn Conference. Our 2016 conference in Haworth proved to be a great success and it is hoped that this 2017 two-day event will be even more of a success that will encourage us to make these conferences a regular annual event. With one of our speakers coming all the way from the USA and two of our attendees flying over from Europe, we feel justified in claiming this to be our first “International” conference.

We look forward to ten presentations covering a wide variety of interesting topics, given by speakers ranging in age from Joseph Cliffe who began his engineering career over 60 years ago to Tom Kay who is studying for his Master’s degree engineering. Attendees should already have received information about the speakers and abstracts of their papers.

It is a little disappointing that we have no more 35 attendees over the two days of our conference, however we are encouraged by the number of apologies received that expressed sincere regret for being unable to attend and indicating a firm intention to come to our 2018 event.

Attendees: The following have registered to attend the conference (ASTT members in bold):

Saturday & Sunday:	Adrian Tester	Alex Powell	Cedric Lodge	Chris Corney
	Chris Ellick	Chris Newman	Colin Green	Dave Palmer
	David Kay	David Nicholson	Doug Landau	Geoff Turner
	Gordon Keyte	Hendrik Kaptein	Iain Jack	Jamie Keyte
	John Duncan	John Hind	Joseph Cliffe	Les Turner
	Mike Horne	Nigel Thornley	Owen Jordan	Phil Yates
	Richard Coleby	Robin Pennie	Tom Kay	Vyvyan Vickers
	William Powell	Wolf Fengler	Xavier Jiménez	
Saturday only:	Felix Schmid	John Tasker	Marcus Harriott	
Sunday only:	Andrew Taylor			

Apologies: Apologies were received from invitees unable to attend as follows:

Alan Barnes	Alan Haigh	Andrew Turner	Angus Eickhoff	Brian Gregson
Clive Brewer	Dave Pawson	David Gibson	David Hyde	David Smith
Davis Bush	Dominic Wells	Edgar Smallegange	Geoff Ayres	Graham Ashton
Holger Plünnecke	Ian Gaylor	James Evans	James Tennant	James Ward
John Boutwood	Martin Johnson	Martyn McGinty	Nick Thompson	Paul Hibberd
Roger Waller	Robin Barnes	Sean Mckerchar	Shaun McMahan	
Terry McMenamin	Stephen Whitehead		Tony Biebuyck	Zach Bond

Name Tags: Your name tag indicates (a) whether you are booked for the Saturday or Sunday session or both; (b) if you've booked for dinner and (c) which Workshop group you are to join - see below:



Please verify that your name tag details are in accordance with your booking. It will be appreciated if you wear your name tags on both days of the conference.

Programme: The conference programme (set out below) is tight in terms of float and finish times, so everyone is asked to stick to the schedule as closely as possible. [See separate notes and schedule overleaf relating to the Sunday workshop visits.]

	Start	Duration	End	Topic	Speaker
Saturday - 30 th Sept 2017	09:45	00:30	10:15	Registration & Coffee	
	10:15	00:15	10:30	Welcome addresses by Tracey Parkinson, General Manager at the East Lancashire Railway and John Hind, Chairman of ASTT.	
	10:30	01:00	11:30	The Clan Project: 21st century manufacturing for a 20th century locomotive	Geoff Turner & Phil Yates
	11:30	01:00	12:30	The Physiology of the Locomotive Boiler	Adrian Tester
	12:30	00:45	13:15	Lunch	
	13:15	00:30	13:45	Austerity 90733 Horn Guide and Frame Re-Design	Tom Kay
	13:45	00:45	14:30	Improving small gauge live steam locomotives	William Powell
	14:30	01:00	15:30	On the latest restoration of Flying Scotsman	Colin Green
	15:30	00:30	16:00	Coffee Break	
	16:00	01:00	17:00	Chapelon and the Advanced Steam Locomotive	Joseph Cliffe
	17:00	02:00	19:00	Free time	
	19:00	03:00	22:00	Conference Dinner	
Sunday - 1 st October	09:00	00:15	09:15	Assemble in meeting room; registration of Sunday attendees	
	09:15	2:30	11:45	Visits to Riley's and East Lancs Railway's workshops (transport by coach).	
	11:45	00:15	12:00	Coffee Break	
	12:00	00:45	12:45	LNWR George the Fifth – Coupling rod analysis for the modern railway	Jamie Keyte
	12:45	00:45	13:30	Lunch	
	13:30	01:00	14:30	CSR Biofuels Trials in the USA	Wolf Fengler
	14:30	00:45	15:15	Update on ASTT's steam locomotive instrumentation developments	Mike Horne
	15:15	00:30	15:45	Coffee Break	
	15:45	01:00	16:45	A new boiler to meet the challenges of the 21st century	Owen Jordan
16:45	00:15	17:00	Wrap-up	John Hind	

Saturday Night Dinner: The conference dinner will be held in the restaurant of the Two Tubs pub just along the road from the Transport Museum. Dinner is scheduled for 7:00pm. Limited parking is available next to the pub and also near the church - free after 18.30. Cars can also be left in the museum car park overnight.

Those who have reserved a place at the dinner will have pre-selected (and paid for) their “starters” and “mains”. Sweets are not included in the bookings so those wishing to order sweets will need to pay the restaurant directly for the additional cost.

To assist the serving staff, a place-sign showing your name and menu choices will be handed to you when you arrive at the restaurant. Please keep this on the table in front of you

Workshop Visits: A coach will be provided for travelling to the ELR and Riley’s workshop on Sunday morning. At the request of the workshops, we have split attendees into two groups each of which will visit the two workshops alternately. It is expected to take 15 to 20 minutes for the bus to travel between the workshops, based on which a schedule has been prepared that should allow each group 45 minutes of visiting time at each workshop. It may be seen that the schedule is very tight, so your cooperation in helping us meet the schedule will be appreciated:

Start	duration	End	Activity
09:00	00:15	09:15	Assembly in meeting room; registration of Sunday-only attendees
09:15	00:10	09:25	Groups 1 & 2 assemble on coach
09:25	00:05	09:30	Drive to ELR workshop; Groups 2 gets off.
09:30	00:45	10:15	Group 2 inspection of ELR workshops
09:25	00:15	09:40	Drive to Riley's Workshops; Groups 1 gets off
09:40	00:45	10:25	Group 1 inspection of Riley's workshop
09:40	00:20	10:00	Coach travels empty to ELR workshops
10:15	00:15	10:30	Group 2 boards coach and travels from ELR to Riley's workshops
10:30	00:45	11:15	Group 2 inspection of Riley's workshop
10:30	00:20	10:50	Group 1 boards coach and travels from Riley's to ELR workshops
10:50	00:45	11:35	Group 1 inspection of ELR workshops
10:50	00:15	11:05	Coach travels empty back to Riley's workshops
11:05	00:20	11:25	Coach brings Group 2 from Riley's to ELR workshops
11:35	00:10	11:45	Groups 1 joins Group 2 on coach for ride back to Museum
11:45	00:15	12:00	Coffee Break & back to main programme

It will be important that everyone arrives on time and sticks to the schedule. Those who arrive at the departure point (the museum car park) after 9:15am are likely to find the coach gone, in which case they’ll either have to catch up by car (if they know where to go) or miss the workshop visits.

Please wear your name tags during the workshop tours as these show which group you are in.

Access to Conference Presentation Files: As per previous conference, it is proposed to make speakers’ PPT files and videos of the presentations available for download from AST’s website. Non-attendees will be invited to contribute towards the cost of the conference by making a payment to access these files.

Conference Proceedings: It is hoped that with the cooperation of our speakers it will be possible to produce a printed set of conference proceedings. These will be sold “at cost” to conference attendees. Non-attendees will be charged extra as a contribution towards the cost of the conference.

Book Sales: A table has been set up to display the range of books that ASTT’s offers through its website. Order forms for each title are available on the table.

Books available to order include:

- 5AT Fundamental Design Calculations (published by ASTT)
- 5AT Feasibility Study (published by ASTT)
- “The Red Devil and Other Tales from the Age of Steam” (published by Camden)
- “The Fire Burns much better ...” by Jos Koopmans (published by Camden)
- “Advanced Steam Locomotive Development” (published by Camden)
- “A Defence of the Midland/LMS Class 4 0-6-0” (published by Crimson Lake)
- “An Introduction to Large Lap Valves & their use on the LMS” (pub. Crimson Lake)

Expressions of interest are requested for Girdlestone’s “Here be Dragons” which ASTT will soon have available for sale. Its price has not yet been determined, however the publisher (Camden Miniature Steam) expects it will be priced at around £32.50 + p&p. Please note that sample copy is soft-covered where as the published version will be hard-covered.

Expressions of interest are also sought for three volumes of Porta Papers that ASTT plans to publish in the near future. Sample copies of these are available for inspection.

Adrian Tester’s new title “The Physiology of the Locomotive Boiler” (the subject of his presentation) may also be on display.

Discounts of 20% on ASTT’s publications, and 10% on most other titles, are available to members.

ASTT Membership: Those attendees who are not already members of ASTT may be interested to know that their conference attendance entitles them to free membership of ASTT for the remainder of the year to 31st December. This is because the half-year membership fee of £5 equates to the attendance fee discount that members are offered. For those who would like to join, a membership application form is attached.

Membership costs only £10 per year and offers the following benefits:

- Access to members-only pages of the website.
- Access to ASTT archives including conference presentation files and video recordings.
- Access to contribute to the Discussion Forum.
- Discounted prices on AST publications.
- Discounted entrance tickets to AST meetings and conferences.
- Free entry to AST’s AGM and members-only “mini-conference” that follows.
- Opportunities to learn about advances in steam traction technology and the science and engineering that underlie the technology.
- Opportunities to contribute to AST’s efforts to maintain steam as an economic and reliable form of traction for both main line and heritage traction.
- Opportunities to meet and get to know like-minded people and to learn from experts in the field.



Membership Application Form

Name

Address

Phone Number Email address

Note: Applicants will normally be granted Associate Membership for which voting rights are excluded. Full membership (with voting rights) is available by invitation to Associate Members who become actively involved in the group's activities. Membership fees are currently set at £10 per annum for associate membership and £20 per annum for full membership. The membership year runs from 1st Jan to 31st December, a 50% fee discount being available to new members joining on or after 1st July.

I wish to apply for associate membership of the Advanced Steam Traction Trust:

Payment may be made by direct bank transfer (see below) or by cheque, postal order, or banker's draft. If paying by cheque, postal order or banker's draft, please make payment to: "Advanced Steam Traction Trust" and post with this form to the Membership Secretary:

Chris Newman, 2/4 Kimmerghame View, Edinburgh EH4 2GP

If you would like to make an additional one-off or annual donation to Advanced Steam Traction Trust, please complete one or both of the options below:

I would like to make a One-Off Donation of £

I would like to make an Annual Donation of £

Total amount paid with this application: £ (including membership fee)

You will be asked to confirm your agreement to abide by the Rules and Constitution of the Advanced Steam Traction Trust which will be forwarded to you on acceptance of your application.

GIFT AID DECLARATION

Please treat all gifts of money that I make today and in the future as Gift Aid donations. I understand that I must pay an amount of Income Tax and/or Capital Gains Tax to the UK government each tax year that is at least equal to the amount of tax that the **Advanced Steam Traction Trust** will reclaim on my gifts for that tax year. I confirm that I have paid or will pay an amount of Income Tax and/or Capital Gains Tax for each tax year (6th April - 5th April) that is at least equal to the amount of tax to **all** the charities or Community Amateur Sports Clubs that I donate to will reclaim on my gifts for that tax year. I understand that VAT and Council Tax do not qualify.

I confirm that I would like all my donations to the Advanced Steam Traction Trust to be treated as Gift Aid:

Signed: **Date:**

STANDING ORDER MANDATE FOR ANNUAL MEMBERSHIP RENEWAL (please detach and send to your bank).

Account Holder's Name Account No.

Bank/Building Society Name: Sort Code/...../.....

Bank Branch Building Society Address:

Please pay the amount of £ from the above account on the 1st day of January each year until further notice to the following bank account:

Bank: **HSBC Letchworth**; Sort Code: **40-28-14**; Account No: **41760947**; IBAN: GB69MIDL40281441760947

Account Name: **Advanced Steam Traction Trust**. Please include **your name** in the "Reference" section.

Signed Date

You can cancel a standing order at any time by contacting your Bank/Building Society. Please tear off this form and send it to your Bank/Building Society and remember to provide us with a copy.

Note: Your name, address & contact details will be held on computer for accounting & mailing purposes only & will **not** be passed to any third party.

If you are interested in helping the AST Group in any of its activities, please indicate the areas that you would be willing to assist with and tell us something about yourself below, if necessary please continue on a separate sheet or include your CV.

Your participation will be particularly appreciated in any of the following areas:

- Engineering and technical:
- Promotion and marketing;
- Financial / economic analysis;
- Committee positions;
- Website assistance;
- Legal assistance.
- Other – please specify:

[Note: Contact details and other information supplied by an applicant may be made available to members of the AST Trust Committee, but will not be distributed to others without the applicant's consent.]

Personal Information

Year of Birth:

Nationality:

Country of Residence

Qualifications

Professional Affiliations

Computer (PC) Skills:.....

Languages:

Brief overview of Work Experience

Brief overview of Railway/Steam Locomotive Experience

Any other Relevant Information